SEQUENCE LISTING

<110> Lasek, Amy W.
Jones, David A.

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Ser Gln Pro Gln Glu Pro Glu Leu Met Asn Ala Asn Pro Ser Pro
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Pro Pro Ser Pro Ser Gln Gln Ile Asn Leu Gly Pro Ser Ser Asn
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Pro His Ala Lys Pro Ser Asp Phe His Phe Leu Lys Val Ile Gly
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Lys Gly Ser Phe Gly Lys Val Leu Leu Ala Arg His Lys Ala Glu
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Glu Val Phe Tyr Ala Val Lys Val Leu Gln Lys Lys Ala Ile Leu
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Lys Lys Lys Glu Glu Lys His Ile Met Ser Glu Arg Asn Val Leu
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Leu Lys Asn Val Lys His Pro Phe Leu Val Gly Leu His Phe Ser
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Phe Gln Thr Ala Asp Lys Leu Tyr Phe Val Leu Asp Tyr Ile Asn
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Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Ile Ala Ser Ala Leu
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Gly Tyr Leu His Ser Leu Asn Ile Val Tyr Arg Asp Leu Lys Pro
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Glu Asn Ile Leu Leu Asp Ser Gln Gly His Ile Val Leu Thr Asp
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Phe Gly Leu Cys Lys Glu Asn Ile Glu His Asn Ser Thr Thr Ser
            245                 250                 255
Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu His
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Lys Gln Pro Tyr Asp Arg Thr Val Asp Trp Trp Cys Leu Gly Ala
            275                 280                 285
Val Leu Tyr Glu Met Leu Tyr Gly Leu Pro Pro Phe Tyr Ser Arg
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Asn Thr Ala Glu Met Tyr Asp Asn Ile Leu Asn Lys Pro Leu Gln
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Glu Glu Pro Val Pro Asn Ser Ile Gly Lys Ser Pro Asp Ser Val
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<213> Homo sapiens

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Cys Ile Tyr Arg Asn Thr Gly Thr Glu Ala Pro Asp Tyr Leu Ala
35 40 45
Thr Val Asp Val Asp Pro Lys Ser Pro Gln Tyr Cys Gln Val Ile
50 55 60
His Arg Leu Pro Met Pro Asn Leu Lys Asp Glu Leu His His Ser
65 70 75
Gly Trp Asn Thr Cys Ser Ser Cys Phe Gly Asp Ser Thr Lys Ser
80 85 90
Arg Thr Lys Leu Val Leu Pro Ser Leu Ile Ser Ser Arg Ile Tyr
95 100 105
Val Val Asp Val Gly Ser Glu Pro Arg Ala Pro Lys Leu His Lys
110 115 120
Val Ile Glu Pro Lys Asp Ile His Ala Lys Cys Glu Leu Ala Phe
125 130 135
Leu His Thr Ser His Cys Leu Ala Ser Gly Glu Val Met Ile Ser
140 145 150
Ser Leu Gly Asp Val Lys Gly Asn Gly Lys Gly Gly Phe Val Leu
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Gly Gly Ala Ala Pro Leu Gly Tyr Asp Phe Trp Tyr Gln Pro Arg
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His Asn Val Met Ile Ser Thr Glu Trp Ala Ala Pro Asn Val Leu
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Arg Asp Gly Phe Asn Pro Ala Asp Val Glu Ala Gly Leu Tyr Gly
215 220 225
Ser His Leu Tyr Val Trp Asp Trp Gln Arg His Glu Ile Val Gln
230 235 240
Thr Leu Ser Leu Lys Asp Gly Leu Ile Pro Leu Glu Ile Arg Phe
245 250 255
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275 280 285
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Trp Leu Leu Pro Glu Met Pro Gly Leu Ile Thr Asp Ile Leu Leu
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Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp Leu Ile Arg Glu
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Gly Ser Val Met Leu Gln Val Asp Val Asp Thr Val Lys Gly Gly
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Leu Lys Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys Glu Pro
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Ala Val Tyr Ser Leu Trp Lys Thr Asp Val Ile Leu Asp Arg Lys
                35                  40                  45
Lys Asn Pro Glu Pro Trp Glu Thr Val Asp Pro Thr Val Pro Gln
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aaaagtccga tttagatact tccaaaccac tcagtgaaaa accaattaca cacaaagttg 3060
aggaagagga tggcaagact gcaactcaac cactgttgaa aaaagaatcc aaaggcccta 3120
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aacaaggaaa gaatactatt gatgtctggt ggctttttga tgatggaggt ttgaccttat 3240

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tgatacctta ccttctgacg accaagaaaa aatggaaaga ctgtaagatc agagtattca 3300
ttggtggaaa gataaacaga atagaccatg accggagagc gatggctact ttgcttagca 3360
agttccggat agacttttct gatatcatgg ttctaggaga tatcaatacc aaaccaaaga 3420
aagaaaatat tatagctttt gaggaaatca ttgagccata cagacttcat gaagatgata 3480
aagagcaaga tattgcagat aaaatgaaag aagatgaacc atggcgaata acagataatg 3540
agcttgaact ttataagacc aagacatacc ggcagatcag gttaaatgag ttattaaagg 3600
aacattcaag cacagctaat attattgtca tgagtctccc agttgcacga aaaggtgctg 3660
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tcctagttcg tgggaatcat cagagtgtcc ttaccttcta ttcataaatg ttctatacag 3780
tggacagccc tccagaatgg tacttcagtg cctagtgtag taactgaaat cttcaatgac 3840
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acacaggaaa gttgctccat tgataacgtg tatggagact tcggttttag tcaattccat 3960
atctcaatct taatggtgat tcttctctgt tgaactgaag tttgtgagag tagttttcct 4020
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agcctttagc cttgaggtgc cttctgaaat taaccaaatt tcatccatat atcctctttt 4140
ataaacttat agaatgtcaa actttgcctt caactgtttt tatttctagt ctcttccact 4200
ttaaaacaaa atgaacactg cttgtcttct tccattgacc atttagtgtt gagtactgta 4260
tgtgttttgt taattctata aaggtatctg ttagatatta aaggtgagaa ttagggcagg 4320
ttaatcaaaa atggggaagg ggaaatggta accaaaaaaa aaaaaaaa               4368
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<210> 16
<211> 1212
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1285632CD1

<400> 16

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Ala Gly Val Gly Glu Thr Pro Ser Ala Ala Ala Leu Ala Ala Ala
                 20                  25                  30
Arg Val Glu Leu Pro Gly Thr Ala Val Pro Ser Val Pro Glu Asp
                 35                  40                  45
Ala Ala Pro Ala Ser Arg Asp Gly Gly Gly Val Arg Asp Glu Gly
                 50                  55                  60
Pro Ala Ala Ala Gly Asp Gly Leu Gly Arg Pro Leu Gly Pro Thr
                 65                  70                  75
Pro Ser Gln Ser Arg Phe Gln Val Asp Leu Val Ser Glu Asn Ala
                 80                  85                  90
Gly Arg Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
                 95                 100                 105
Ala Ala Gly Ala Gly Ala Gly Ala Lys Gln Thr Pro Ala Asp Gly
                110                 115                 120
Glu Ala Ser Gly Glu Ser Glu Pro Ala Lys Gly Ser Glu Glu Ala
                125                 130                 135
Lys Gly Arg Phe Arg Val Asn Phe Val Asp Pro Ala Ala Ser Ser
                140                 145                 150
Ser Ala Glu Asp Ser Leu Ser Asp Ala Ala Gly Val Gly Val Asp
                155                 160                 165
Gly Pro Asn Val Ser Phe Gln Asn Gly Gly Asp Thr Val Leu Ser
                170                 175                 180
Glu Gly Ser Ser Leu His Ser Gly Gly Gly Gly Gly Ser Gly His
                185                 190                 195
His Gln His Tyr Tyr Tyr Asp Thr His Thr Asn Thr Tyr Tyr Leu
                200                 205                 210
Arg Thr Phe Gly His Asn Thr Met Asp Ala Val Pro Arg Ile Asp
                215                 220                 225
His Tyr Arg His Thr Ala Ala Gln Leu Gly Glu Lys Leu Leu Arg
                230                 235                 240
Pro Ser Leu Ala Glu Leu His Asp Glu Leu Glu Lys Glu Pro Phe
                245                 250                 255
Glu Asp Gly Phe Ala Asn Gly Glu Glu Ser Thr Pro Thr Arg Asp
                260                 265                 270
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Ala Val Val Thr Tyr Thr Ala Glu Ser Lys Gly Val Val Lys Phe
275 280 285
Gly Trp Ile Lys Gly Val Leu Val Arg Cys Met Leu Asn Ile Trp
290 295 300
Gly Val Met Leu Phe Ile Arg Leu Ser Trp Ile Val Gly Gln Ala
305 310 315
Gly Ile Gly Leu Ser Val Leu Val Ile Met Met Ala Thr Val Val
320 325 330
Thr Thr Ile Thr Gly Leu Ser Thr Ser Ala Ile Ala Thr Asn Gly
335 340 345
Phe Val Arg Gly Gly Gly Ala Tyr Tyr Leu Ile Ser Arg Ser Leu
350 355 360
Gly Pro Glu Phe Gly Gly Ala Ile Gly Leu Ile Phe Ala Phe Ala
365 370 375
Asn Ala Val Ala Val Ala Met Tyr Val Val Gly Phe Ala Glu Thr
380 385 390
Val Val Glu Leu Leu Lys Glu His Ser Ile Leu Met Ile Asp Glu
395 400 405
Ile Asn Asp Ile Arg Ile Ile Gly Ala Ile Thr Val Val Ile Leu
410 415 420
Leu Gly Ile Ser Val Ala Gly Met Glu Trp Glu Ala Lys Ala Gln
425 430 435
Ile Val Leu Leu Val Ile Leu Leu Leu Ala Ile Gly Asp Phe Val
440 445 450
Ile Gly Thr Phe Ile Pro Leu Glu Ser Lys Lys Pro Lys Gly Phe
455 460 465
Phe Gly Tyr Lys Ser Glu Ile Phe Asn Glu Asn Phe Gly Pro Asp
470 475 480
Phe Arg Glu Glu Glu Thr Phe Phe Ser Val Phe Ala Ile Phe Phe
485 490 495
Pro Ala Ala Thr Gly Ile Leu Ala Gly Ala Asn Ile Ser Gly Asp
500 505 510
Leu Ala Asp Pro Gln Ser Ala Ile Pro Lys Gly Thr Leu Leu Ala
515 520 525
Ile Leu Ile Thr Thr Leu Val Tyr Val Gly Ile Ala Val Ser Val
530 535 540
Gly Ser Cys Val Val Arg Asp Ala Thr Gly Asn Val Asn Asp Thr
545 550 555
Ile Val Thr Glu Leu Thr Asn Cys Thr Ser Ala Ala Cys Lys Leu
560 565 570
Asn Phe Asp Phe Ser Ser Cys Glu Ser Ser Pro Cys Ser Tyr Gly
575 580 585
Leu Met Asn Asn Phe Gln Val Met Ser Met Val Ser Gly Phe Thr
590 595 600
Pro Leu Ile Ser Ala Gly Ile Phe Ser Ala Thr Leu Ser Ser Ala
605 610 615
Leu Ala Ser Leu Val Ser Ala Pro Lys Ile Phe Gln Ala Leu Cys
620 625 630
Lys Asp Asn Ile Tyr Pro Ala Phe Gln Met Phe Ala Lys Gly Tyr
635 640 645
Gly Lys Asn Asn Glu Pro Leu Arg Gly Tyr Ile Leu Thr Phe Leu
650 655 660
Ile Ala Leu Gly Phe Ile Leu Ile Ala Glu Leu Asn Val Ile Ala
665 670 675
Pro Ile Ile Ser Asn Phe Phe Leu Ala Ser Tyr Ala Leu Ile Asn
680 685 690
Phe Ser Val Phe His Ala Ser Leu Ala Lys Ser Pro Gly Trp Arg
695 700 705
Pro Gly Phe Lys Tyr Tyr Asn Met Trp Ile Ser Leu Leu Gly Ala
710 715 720
Ile Leu Cys Cys Ile Val Met Phe Val Ile Asn Trp Trp Ala Ala
725 730 735
Leu Leu Thr Tyr Val Ile Val Leu Gly Leu Tyr Ile Tyr Val Thr
740 745 750
Tyr Lys Lys Pro Asp Val Asn Trp Gly Ser Ser Thr Gln Ala Leu
755 760 765

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Thr Tyr Leu Asn Ala Leu Gln His Ser Ile Arg Leu Ser Gly Val
                770                 775                 780
Glu Asp His Val Lys Asn Phe Arg Pro Gln Cys Leu Val Met Thr
                785                 790                 795
Gly Ala Pro Asn Ser Arg Pro Ala Leu Leu His Leu Val His Asp
                800                 805                 810
Phe Thr Lys Asn Val Gly Leu Met Ile Cys Gly His Val His Met
                815                 820                 825
Gly Pro Arg Arg Gln Ala Met Lys Glu Met Ser Ile Asp Gln Ala
                830                 835                 840
Lys Tyr Gln Arg Trp Leu Ile Lys Asn Lys Met Lys Ala Phe Tyr
                845                 850                 855
Ala Pro Val His Ala Asp Asp Leu Arg Glu Gly Ala Gln Tyr Leu
                860                 865                 870
Met Gln Ala Ala Gly Leu Gly Arg Met Lys Pro Asn Thr Leu Val
                875                 880                 885
Leu Gly Phe Lys Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val
                890                 895                 900
Asp Met Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr
                905                 910                 915
Gly Val Val Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His
                920                 925                 930
Leu Gln Gly Gln Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser Pro
                935                 940                 945
Gly Thr Lys Asp Val Val Val Ser Val Glu Tyr Ser Lys Lys Ser
                950                 955                 960
Asp Leu Asp Thr Ser Lys Pro Leu Ser Glu Lys Pro Ile Thr His
                965                 970                 975
Lys Val Glu Glu Glu Asp Gly Lys Thr Ala Thr Gln Pro Leu Leu
                980                 985                 990
Lys Lys Glu Ser Lys Gly Pro Ile Val Pro Leu Asn Val Ala Asp
                995                1000                1005
Gln Lys Leu Leu Glu Ala Ser Thr Gln Phe Gln Lys Lys Gln Gly
               1010                1015                1020
Lys Asn Thr Ile Asp Val Trp Trp Leu Phe Asp Asp Gly Gly Leu
               1025                1030                1035
Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys Lys Lys Trp Lys
               1040                1045                1050
Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile Asn Arg Ile
               1055                1060                1065
Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys Phe Arg
               1070                1075                1080
Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr Lys
               1085                1090                1095
Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro
               1100                1105                1110
Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys
               1115                1120                1125
Met Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu
               1130                1135                1140
Leu Tyr Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu
               1145                1150                1155
Leu Lys Glu His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu
               1160                1165                1170
Pro Val Ala Arg Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala
               1175                1180                1185
Trp Leu Glu Ala Leu Ser Lys Asp Leu Pro Pro Ile Leu Leu Val
               1190                1195                1200
Arg Gly Asn His Gln Ser Val Leu Thr Phe Tyr Ser
               1205                1210
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<210> 17
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474322.36

<220>
<221> unsure
<222> 388
<223> a, t, c, g, or other

<400> 17
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ggagagcatg tctgtgtgtc tcagagccac caaggaggag caggggagcg acggccgggg 120
cagaagttga gaccaccagc agaggagcta ggccagtcca tctgcatttg tcacccaaga 180
actcttacca tgaagaccct cctactgttg gcagtgatca tgatctttgg cctactgcag 240
gcccatggga atttggtgaa tttccacaga atgatcaagt tgacgacagg aaaggaagcc 300
gcactcagtt atgggcttct atggctgcca ctgtggcgtg ggtggcagag gatcccccaa 360
ggatgcaacg ggatcgctgt gtgtcacntc catgactgtt gctacaaacg tctggagaaa 420
cgtggatgtg gcaccaaatt tctgagctac aagtttagca actcggggag cagaatcacc 480
tgtgcaaaac aggactcctg cagaagtcaa ctgtgtgagt gtgataaggc tgctgccacc 540
tgttttgcta gaaacaagac gacctacaat aaaaattcct tggccatgca gaaagcatcc 600
ctcacccatc ctagaggcca ggcaggagcc cttctatacc cacccagaat gagacatcca 660
gcagatttcc agccttctac tgctctcctc cacctcaact ccgtgcttaa ccaaagaagc 720
tgtactccgg ggggt 735

<210> 18
<211> 1868
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3040213CB1

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tctccagaaa tgctttgggt tcatctttca ttgctgcaag gaacttccat gcctctaaca 180
ctcatcttca aaagactggg actgctgaga tgtcctctat tcttgaagag cgtattcttg 240
gagctgatac ctctgttgat cttgaagaaa ctgggcgtgt cttaagtatt ggtgatggta 300
ttgcccgcgt acatgggctg aggaatgttc aagcagaaga aatggtagag ttttcttcag 360
gcttaaaggg tatgtccttg aacttggaac ctgacaatgt tggtgttgtc gtgtttggaa 420
atgataaact aattaaggaa ggagatatag tgaagaggac aggagccatt gtggacgttc 480
cagttggtga ggagctgttg ggtcgtgtag ttgatgccct tggtaatgct attgatggaa 540
agggtccaat tggttccaag acgcgtaggc gagttggtct gaaagccccc ggtatcattc 600
ctcgaatttc agtgcgggaa ccaatgcaga ctggcattaa ggctgtggat agcttggtgc 660
caattggtcg tggtcagcgt gaactgatta ttggtgaccg acagactggg aaaacctcaa 720
ttgctattga cacaatcatt aaccagaaac gtttcaatga tggatctgat gaaaagaaga 780
agctgtactg tatttatgtt gctattggtc aaaagagatc cactgttgcc cagttggtga 840
agagacttac agatgcagat gccatgaagt acaccattgt ggtgtcggct acggcctcgg 900
atgctgcccc acttcagtac ctggctcctt actctggctg ttccatggga gagtatttta 960
gagacaatgg caaacatgct ttgatcatct atgacgactt atccaaacag gctgttgctt 1020
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gtggctcctt gactgctttg ccagtcatag aaacacaggc tggtgatgtg tctgcttaca 1200
ttccaacaaa tgtcatttcc atcactgacg gacagatctt cttggaaaca gaattgttct 1260
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ccagcaagat tacaaagttt gagaatgctt tcttgtctca tgtcgtcagc cagcaccaag 1620
ccttgttggg cactatcagg gctgatggaa agatctcaga acaatcagat gcaaagctga 1680
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aaataccagt tcagttttgt cattgttcta gtaaattagt tccatttgta aaagggttac 1800
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aaaaaaaa 1868

<210> 19
<211> 553
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3040213CD1

<400> 19

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Arg Arg Ala Gly Leu Val Ser Arg Asn Ala Leu Gly Ser Ser Phe
             20                  25                  30
Ile Ala Ala Arg Asn Phe His Ala Ser Asn Thr His Leu Gln Lys
             35                  40                  45
Thr Gly Thr Ala Glu Met Ser Ser Ile Leu Glu Glu Arg Ile Leu
             50                  55                  60
Gly Ala Asp Thr Ser Val Asp Leu Glu Glu Thr Gly Arg Val Leu
             65                  70                  75
Ser Ile Gly Asp Gly Ile Ala Arg Val His Gly Leu Arg Asn Val
             80                  85                  90
Gln Ala Glu Glu Met Val Glu Phe Ser Ser Gly Leu Lys Gly Met
             95                 100                 105
Ser Leu Asn Leu Glu Pro Asp Asn Val Gly Val Val Val Phe Gly
            110                 115                 120
Asn Asp Lys Leu Ile Lys Glu Gly Asp Ile Val Lys Arg Thr Gly
            125                 130                 135
Ala Ile Val Asp Val Pro Val Gly Glu Glu Leu Leu Gly Arg Val
            140                 145                 150
Val Asp Ala Leu Gly Asn Ala Ile Asp Gly Lys Gly Pro Ile Gly
            155                 160                 165
Ser Lys Thr Arg Arg Arg Val Gly Leu Lys Ala Pro Gly Ile Ile
            170                 175                 180
Pro Arg Ile Ser Val Arg Glu Pro Met Gln Thr Gly Ile Lys Ala
            185                 190                 195
Val Asp Ser Leu Val Pro Ile Gly Arg Gly Gln Arg Glu Leu Ile
            200                 205                 210
Ile Gly Asp Arg Gln Thr Gly Lys Thr Ser Ile Ala Ile Asp Thr
            215                 220                 225
Ile Ile Asn Gln Lys Arg Phe Asn Asp Gly Ser Asp Glu Lys Lys
            230                 235                 240
Lys Leu Tyr Cys Ile Tyr Val Ala Ile Gly Gln Lys Arg Ser Thr
            245                 250                 255
Val Ala Gln Leu Val Lys Arg Leu Thr Asp Ala Asp Ala Met Lys
            260                 265                 270
Tyr Thr Ile Val Val Ser Ala Thr Ala Ser Asp Ala Ala Pro Leu
            275                 280                 285
Gln Tyr Leu Ala Pro Tyr Ser Gly Cys Ser Met Gly Glu Tyr Phe
            290                 295                 300
Arg Asp Asn Gly Lys His Ala Leu Ile Ile Tyr Asp Asp Leu Ser
            305                 310                 315
Lys Gln Ala Val Ala Tyr Arg Gln Met Ser Leu Leu Leu Arg Arg
            320                 325                 330
Pro Pro Gly Arg Glu Ala Tyr Pro Gly Asp Val Phe Tyr Leu His
            335                 340                 345
Ser Arg Leu Leu Glu Arg Ala Ala Lys Met Asn Asp Ala Phe Gly
            350                 355                 360
Gly Gly Ser Leu Thr Ala Leu Pro Val Ile Glu Thr Gln Ala Gly
            365                 370                 375
Asp Val Ser Ala Tyr Ile Pro Thr Asn Val Ile Ser Ile Thr Asp
            380                 385                 390
Gly Gln Ile Phe Leu Glu Thr Glu Leu Phe Tyr Lys Gly Ile Arg
            395                 400                 405
Pro Ala Ile Asn Val Gly Leu Ser Val Ser Arg Val Gly Ser Ala
            410                 415                 420
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Ala Gln Thr Arg Ala Met Lys Gln Val Ala Gly Thr Met Lys Leu
                425                 430                 435
Glu Leu Ala Gln Tyr Arg Glu Val Ala Ala Phe Ala Gln Phe Gly
                440                 445                 450
Ser Asp Leu Asp Ala Ala Thr Gln Gln Leu Leu Ser Arg Gly Val
                455                 460                 465
Arg Leu Thr Glu Leu Leu Lys Gln Gly Gln Tyr Ser Pro Met Ala
                470                 475                 480
Ile Glu Glu Gln Val Ala Val Ile Tyr Ala Gly Val Arg Gly Tyr
                485                 490                 495
Leu Asp Lys Leu Glu Pro Ser Lys Ile Thr Lys Phe Glu Asn Ala
                500                 505                 510
Phe Leu Ser His Val Val Ser Gln His Gln Ala Leu Leu Gly Thr
                515                 520                 525
Ile Arg Ala Asp Gly Lys Ile Ser Glu Gln Ser Asp Ala Lys Leu
                530                 535                 540
Lys Glu Ile Val Thr Asn Phe Leu Ala Gly Phe Glu Ala
                545                 550
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<210> 20
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1282225CB1

<400> 20
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ggaaaacttt gaagccttca tgaaggcaat cggtctgccg gaagagctca tccagaaggg 180
gaaggatatc aaggggtgt cggaaatcgt gcagaatggg aagcacttca agttcaccat 240
caccgctggg tccaaagtga tccaaaacga attcacggtg ggggaggaat gtgagctgga 300
gacaatgaca ggggagaaag tcaagacagt ggttcagttg gaaggtgaca ataaactggt 360
gacagctttc aaaaacatca agtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
catgacattg ggtgacattg tcttcaagag aatcagcaag agaatttaaa caagtctgca 480
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<210> 21
<211> 127
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1282225CD1

<400> 21
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Met Ser Phe Ser Gly Lys Tyr Gln Leu Gln Ser Gln Glu Asn Phe
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Glu Ala Phe Met Lys Ala Ile Gly Leu Pro Glu Glu Leu Ile Gln
                20                  25                  30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
                35                  40                  45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
                50                  55                  60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
                65                  70                  75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
                80                  85                  90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
                95                 100                 105
Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
               110                 115                 120
Lys Arg Ile Ser Lys Arg Ile
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<210> 22
<211> 2486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 991163CB1

<400> 22
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attactcgat gctgttgata acagcaagat ggctttgaac tcagggtcac cacctgctat 180
tggaccttac tatgaaaacc atggatacca accggaaaac ccctatcccg cacagcccac 240
tgtggtcccc actgtctacg aggtgcatcc ggctcagtac tacccgtccc ccgtgcccca 300
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cccatccggg acagtgtgca cctcaaagac taagaaagca ctgtgcatca ccttgaccct 420
ggggaccttc ctcgtgggag ctgcgctggc cgctggccta ctctggaagt tcatgggcag 480
caagtgctcc aactctggga tagagtgcga ctcctcaggt acctgcatca acccctctaa 540
ctggtgtgat ggcgtgtcac actgccccgg cggggaggac gagaatcggt gtgttcgcct 600
ctacggacca aacttcatcc ttcaggtgta ctcatctcag aggaagtcct ggcaccctgt 660
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gaataatttt tactctagcc aaggaatagt ggatgacagc ggatccacca gctttatgaa 780
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Pro Asn Phe Ile Leu Gln Val Tyr Ser Ser Gln Arg Lys Ser Trp
                50                  55                  60
His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn Tyr Gly Arg Ala
                65                  70                  75
Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr Ser Ser Gln
                80                  85                  90
Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys Leu Asn
                95                 100                 105
Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His Ser
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Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
               125                 130                 135
Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly
               140                 145                 150
Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu
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His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
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Glu Trp Thr Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn
               185                 190                 195
Asn Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser
               200                 205                 210
Phe Met Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser
               215                 220                 225
His Pro Asn Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu
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Met Lys Leu Gln Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro
               245                 250                 255
Val Cys Leu Pro Asn Pro Gly Met Met Leu Gln Pro Glu Gln Leu
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Cys Trp Ile Ser Gly Trp Gly Ala Thr Glu Glu Lys Gly Lys Thr
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Ser Glu Val Leu Asn Ala Ala Lys Val Leu Leu Ile Glu Thr Gln
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Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu Ile Thr Pro Ala
               305                 310                 315
Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp Ser Cys Gln
               320                 325                 330
Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn Ile Trp
               335                 340                 345
Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys Ala
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35 40 45
Gly Lys Arg Phe Ser His Ser Gly Asn Gln Leu Asp Gly Pro Ile
50 55 60
Thr Ala Leu Arg Val Arg Val Asn Thr Tyr Tyr Ile Val Gly Leu
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Gln Val Arg Tyr Gly Lys Val Trp Ser Asp Tyr Val Gly Gly Arg
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Asn Gly Asp Leu Glu Glu Ile Phe Leu His Pro Gly Glu Ser Val
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Ile Gln Val Ser Gly Lys Tyr Lys Trp Tyr Leu Lys Lys Leu Val
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Phe Val Thr Asp Lys Gly Arg Tyr Leu Ser Phe Gly Lys Asp Ser
125 130 135
Gly Thr Ser Phe Asn Ala Val Pro Leu His Pro Asn Thr Val Leu
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<213> Homo sapiens

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35 40 45
Ile Asn Leu Ala Ala Gly Leu Asp Leu Phe Gln Gly Asp Ile Leu
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Leu Gln Lys Ser Arg Asn Gly Leu Arg Asp Pro Asn Thr Arg Trp
65 70 75
Thr Phe Pro Ile Pro Tyr Ile Leu Ala Asp Asn Leu Gly Leu Asn
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Ala Lys Gly Ala Ile Leu Tyr Ala Phe Glu Met Phe Arg Leu Lys
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Ser Cys Val Asp Phe Lys Pro Tyr Glu Gly Glu Ser Ser Tyr Ile
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His Val Gly Gln Asn Ile Ser Ile Gly Gln Gly Cys Ala Tyr Lys
140 145 150
Ala Ile Ile Glu His Glu Ile Leu His Ala Leu Gly Phe Tyr His
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Glu Gln Ser Arg Thr Asp Arg Asp Asp Tyr Val Asn Ile Trp Trp
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Asp Gln Ile Leu Ser Gly Tyr Gln His Asn Phe Asp Thr Tyr Asp
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Asp Ser Leu Ile Thr Asp Leu Asn Thr Pro Tyr Asp Tyr Glu Ser
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Pro Thr Ile Thr Ala Lys Ile Pro Glu Phe Asn Ser Ile Ile Gly
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Gln Arg Leu Asp Phe Ser Ala Ile Asp Leu Glu Arg Leu Asn Arg
245 250 255
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260 265 270
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Asp His Thr Leu Leu Gly Gln Cys Thr Gly Ala Gly Tyr Phe Met
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335 340 345
Phe Phe Tyr Lys Met Thr Gly Ser Pro Ser Asp Arg Leu Val Val
350 355 360
Trp Val Arg Arg Asp Asp Ser Thr Gly Asn Val Arg Lys Leu Val
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Ala His Val Val Leu Lys Glu Glu Gln Lys Phe Arg Tyr Leu Phe

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Gly Asp Lys Leu Gln Ser Pro Arg Phe Tyr Asn Ser Glu Gly Tyr
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Gly Phe Gly Leu Thr Leu Tyr Pro Asn Ser Arg Glu Ser Ser Gly
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Pro Asn Pro Cys Gln Asn Asp Gly Ile Cys Val Asn Val Lys Gly
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His Ser Ala Gly Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly
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Trp Thr Leu Val Ala Ser Val His Glu Asn Asp Met His Gly Lys
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<213> Homo sapiens

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<223> Incyte ID No: 5517972CB1

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<220>
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Asp Val Leu Ala Ala Arg Lys Asp Pro Ser Gly Leu Ser Gly Asp
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Val Leu Ile Asn Gly Ala Pro Arg Pro Ala Asn Phe Lys Cys Asn
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Ser Ile His Gln Pro Arg Tyr Ser Ile Phe Lys Leu Phe Asp Ser
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Leu Thr Leu Leu Ala Ser Gly Arg Leu Met Phe His Gly Pro Ala
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Asp Ser Thr Ala Val Ala Leu Asn Arg Glu Glu Asp Phe Lys Ala
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<213> Homo sapiens

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<213> Homo sapiens

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<210> 38
<211> 2333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 345275.4

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<221> unsure
<222> 915-1222, 2199
<223> a, t, c, g, or other

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<211> 1448
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 124600CB1

<220>
<221> unsure
<222> 1164
<223> a, t, c, g, or other

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<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 124600CD1

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35 40 45
Lys Ala Ala Leu Asp Glu Gln Phe Glu Pro Gln Lys Thr Leu Phe
50 55 60
Ile Gln Cys Asp Val Ala Asp Gln Gln Gln Leu Arg Asp Thr Phe
65 70 75
Arg Lys Val Val Asp His Phe Gly Arg Leu Asp Ile Leu Val Asn
80 85 90
Asn Ala Gly Val Asn Asn Glu Lys Asn Trp Glu Lys Thr Leu Gln
95 100 105
Ile Asn Leu Val Ser Val Ile Ser Gly Thr Tyr Leu Gly Leu Asp
110 115 120
Tyr Met Ser Lys Gln Asn Gly Gly Glu Gly Gly Ile Ile Ile Asn
125 130 135
Met Ser Ser Leu Ala Gly Leu Met Pro Val Ala Gln Gln Pro Val
140 145 150
Tyr Cys Ala Ser Lys His Gly Ile Val Gly Phe Thr Arg Ser Ala
155 160 165
Ala Leu Ala Ala Asn Leu Met Asn Ser Gly Val Arg Leu Asn Ala
170 175 180
Ile Cys Pro Gly Phe Val Asn Thr Ala Ile Leu Glu Ser Ile Glu
185 190 195
Lys Glu Glu Asn Met Gly Gln Tyr Ile Glu Tyr Lys Asp His Ile
200 205 210
Lys Asp Met Ile Lys Tyr Tyr Gly Ile Leu Asp Pro Pro Leu Ile
215 220 225
Ala Asn Gly Leu Ile Thr Leu Ile Glu Asp Asp Ala Leu Asn Gly
230 235 240
Ala Ile Met Lys Ile Thr Thr Ser Lys Gly Ile His Phe Gln Asp
245 250 255
Tyr Asp Thr Thr Pro Phe Gln Ala Lys Thr Gln
260 265

<210> 41
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978410.7

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aataataaac aatatatacc ttc 743

<210> 42
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1401116.1

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<210> 43
<211> 2147
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2921009CB1

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<210> 44
<211> 438
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2921009CD1

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35 40 45
Glu Ser Gln Ser Gln Tyr Cys Arg Asn Ile Leu Tyr Asn Phe Leu
50 55 60
Lys Leu Pro Ala Lys Arg Ser Ile Asn Cys Ser Gly Val Thr Arg
65 70 75
Gly Asp Gln Glu Ala Val Leu Gln Ala Ile Leu Asn Asn Leu Glu
80 85 90
Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr His Tyr Leu Ser
95 100 105
Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg Lys Phe Ile
110 115 120
Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile Ala Tyr
125 130 135
Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu Leu
140 145 150
Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp
155 160 165
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile
170 175 180
Ser Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val
185 190 195
Val Tyr Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met
200 205 210
Glu Asp Leu Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn
215 220 225
Thr Cys Gly Thr Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val
230 235 240
Gln Ala Leu Lys Met Leu Asn Gly Arg Asn Ser Met Glu Ser Glu
245 250 255
Val Pro Pro Lys His Lys Glu Thr Arg Trp Lys Tyr His Phe Glu
260 265 270
Val Val Arg Asp Thr Leu His Leu Thr Asn Lys Lys Lys Asp Pro
275 280 285
Pro Pro Tyr Asn Leu Thr Met Phe Thr Gly Asn Ala Tyr Ile Val
290 295 300
Ala Ser Arg Asp Phe Val Gln His Val Leu Lys Asn Pro Lys Ser
305 310 315
Gln Gln Leu Ile Glu Trp Val Lys Asp Thr Tyr Ser Pro Asp Glu
320 325 330
His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp Met Pro Gly Ser

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Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met Thr Ser Ile
                350                 355                 360
Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile Asp Lys
                365                 370                 375
Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala Ile
                380                 385                 390
Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
                395                 400                 405
His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala
                410                 415                 420
Leu Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly
                425                 430                 435
Thr Glu Leu
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<210> 45
<211> 2150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255115.4

<220>
<221> unsure
<222> 2087, 2089, 2094, 2096-2098, 2108, 2110, 2112, 2115-2116, 2120, 2122-2123, 2125, 2136
<223> a, t, c, g, or other

<400> 45
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ggaaaggtgc tggtgtggcc cacagaatac agccattgga taaatatgaa gacaatcctg 180
gaagagcttg ttcagagggg tcatgaggtg attgtgttga catcttcggc ttctattctt 240
gtcaatgcca gtaaatcatc tgctattaaa ttagaagttt atcctacatc tttaactaaa 300
aatgatttgg aagatttttt tatgaaaatg ttcgatagat ggacatatag tatttcaaaa 360
aatacatttt ggtcatattt ttcacaacta caagaattgt gttgggaata ttctgactat 420
aatataaagc tctgtgaaga tgcagttttg aacaagaaac ttatgagaaa actacaagag 480
tcaaaatttg atgtccttct ggcagatgcc gttaatccct gtggtgagct gctggctgaa 540
ctacttaaca tacccttttct gtacagtctc cgcttctctg ttggctacac agttgagaag 600
aatggtggag gatttctgtt ccctccttcc tatgtacctg ttgttatgtc agaattaagt 660
gatcaaatga ttttcatgga gaggataaaa aatatgatat atatgcttta ttttgacttt 720
tggtttcaag catatgatct gaagaagtgg gaccagtttt atagtgaagt tctaggaaga 780
cccactacat tatttgagac aatggggaaa gctgaaatgt ggctcattcg aacctattgg 840
gattttgaat ttcctcgccc attcttacca aatgttgatt ttgttggagg acttcactgt 900
aaaccagcca aacccttgcc taaggaaatg gaagagtttg tgcagagctc tggagaaaat 960
ggtattgtgg tgttttctct ggggtcgatg atcagtaaca tgtcagaaga aagtgccaac 1020
atgatgcatc agccctgccc agatcccaca aaaggttcta tggagatttg atggcaagaa 1080
gccaaatact ttaggttcca atactcgact gtacaagtgg ttaccccaga atgaccttct 1140
tggtcatccc aaaaccaaag cttttataac tcatggtgga accaatggca tctatgaggc 1200
aatctaccat gggatcccta tggtgggcat tcccttgttt gcggatcaac atgataacat 1260
tgctcacatg aaagccaagg gagcagccct cagtgtggac atcaggacca tgtcaagtag 1320
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gaaattatca agaattcatc atgatcaacc ggtgaagccc ctggatcgag cagtcttctg 1440
gattgagttt gtcatgcgcc ataaaggagc caagcacctt cgggtcgcag cccacaacct 1500
cacctggatc cagtaccact ctttggatgt gatagcattc ctgctggcct gcgtggcaac 1560
tatgatattt atgatcacaa aatgttgcct gttttgtttc cgaaagcttg ccaaaacagg 1620
aaagaagaag aaaagggatt agttatatca aaagcctgaa gtggaatgac caaaagatgg 1680
gactcctcct ttattccagc atggagggtt ttaaatggag gatttccttt ttcctgcgac 1740
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gtactttagt tggaattatt ctatgtcaat gatttttaag ctatgaaaaa taataatata 1860
aaaccttatg ggcttatatt gaaatttatt attctaatcc aaaagttacc ccacacaaaa 1920
gttactgagc ttccttatgt ttcacacatt gtatttgatc acaaaacatt aacaactcca 1980
ctcatagtat caacattgtt ttgcaaatac tcagaatatt ttggcttcat tttgagcaga 2040

atttttgttt ttaattttgc caatgaaatc ttcaataatt aaaaaaanana aaanannnaa 2100
aaaaaaanan anaannaacn anngnaaaaa aaaaangggc ggccgccgac 2150

<210> 46
<211> 764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1213592.1

<220>
<221> unsure
<222> 692
<223> a, t, c, g, or other

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tagtgtccgt gtccccagga cagacagcca acatcacctg ctctgcagga tcaattgggg 180
agtacatttg cttcttggta tcagcagaag ccaggtcagt cccctgtgtt ggtcatctat 240
caggataaca agcggccctc agggatctct gagcgattct ctggctccaa ctctgggaac 300
actgccactc tgaccatcac cgagacccag gctacggatg aggctgacta ttattgtcag 360
gcgtgggaca gcagggcatt ggggtgttcg gcggagggac caagctgacc gtcctaggtc 420
agcccaaggc tgccccctcg gtcactctgt tcccgccctc ctctgaggag cttcaagcca 480
acaaggccac actggtgtgt ctcataagtg acttctaccc gggagccgtg acagtggcct 540
ggaaggcaga tagcagcccc gtcaaggcgg gagtggagac caccacaccc tccaaaccaa 600
agcaaccaac caaggtacgg gggccagcag ctatctgagc ctgacgcctg agccagtggg 660
aagtcccaca gaagctacag ctgccaggtc anggcatgaa ggggagcacc gtgggaggaa 720
ggacagtggc cccttacaag aatgtttcat aggtttcttc aacc 764

<210> 47
<211> 1764
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1376382CB1

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gctccggcct cgggctgccc gtggcgcccg caggcggcag gaatcctcct ccggcgatag 180
gacagttttg gcatgtgact gacttacact tagaccctac ttaccacatc acagatgacc 240
acacaaaagt gtgtgcttca tctaaaggtg caaatgcctc caaccctggc ccttttggag 300
atgttctgtg tgattctcca tatcaactta ttttgtcagc atttgatttt attaaaaatt 360
ctggacaaga agcatctttc atgatatgga caggggatag cccacctcat gttcctgtac 420
ctgaactctc aacagacact gttataaatg tgatcactaa tatgacaacc accatccaga 480
gtctctttcc aaatctccag gttttccctg cgctgggtaa tcatgactat tggccacagg 540
atcaactgcc tgtagtcacc agtaaagtgt acaatgcagt agcaaacctc tggaaaccat 600
ggctagatga agaagctatt agtactttaa ggaaaggtgg tttttattca cagaaagtta 660
caactaatcc aaaccttagg atcatcagtc taaacacaaa cttgtactac ggcccaaata 720
taatgacact gaacaagact gacccagcca accagtttga atggctagaa agtacattga 780
acaactctca gcagaataag gagaaggtgt atatcatagc acatgttcca gtggggtatc 840
tgccatcttc acagaacatc acagcaatga gagaatacta taatgagaaa ttgatagata 900
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gcattatggt tctttcagat aaaaaaggaa gtccagtaaa ttctttgttt gtggctcctg 1020
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acgacattga agatttgcag ccggaaagtt tatatggatt agctaaacaa tttacaatcc 1260
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aatatgaaaa aaaaaaaaaa aagg 1764

<210> 48
<211> 453
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1376382CD1

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Arg Asn Pro Pro Pro Ala Ile Gly Gln Phe Trp His Val Thr Asp
35 40 45
Leu His Leu Asp Pro Thr Tyr His Ile Thr Asp Asp His Thr Lys
50 55 60
Val Cys Ala Ser Ser Lys Gly Ala Asn Ala Ser Asn Pro Gly Pro
65 70 75
Phe Gly Asp Val Leu Cys Asp Ser Pro Tyr Gln Leu Ile Leu Ser
80 85 90
Ala Phe Asp Phe Ile Lys Asn Ser Gly Gln Glu Ala Ser Phe Met
95 100 105
Ile Trp Thr Gly Asp Ser Pro Pro His Val Pro Val Pro Glu Leu
110 115 120
Ser Thr Asp Thr Val Ile Asn Val Ile Thr Asn Met Thr Thr Thr
125 130 135
Ile Gln Ser Leu Phe Pro Asn Leu Gln Val Phe Pro Ala Leu Gly
140 145 150
Asn His Asp Tyr Trp Pro Gln Asp Gln Leu Pro Val Val Thr Ser
155 160 165
Lys Val Tyr Asn Ala Val Ala Asn Leu Trp Lys Pro Trp Leu Asp
170 175 180
Glu Glu Ala Ile Ser Thr Leu Arg Lys Gly Gly Phe Tyr Ser Gln
185 190 195
Lys Val Thr Thr Asn Pro Asn Leu Arg Ile Ile Ser Leu Asn Thr
200 205 210
Asn Leu Tyr Tyr Gly Pro Asn Ile Met Thr Leu Asn Lys Thr Asp
215 220 225
Pro Ala Asn Gln Phe Glu Trp Leu Glu Ser Thr Leu Asn Asn Ser
230 235 240
Gln Gln Asn Lys Glu Lys Val Tyr Ile Ile Ala His Val Pro Val
245 250 255
Gly Tyr Leu Pro Ser Ser Gln Asn Ile Thr Ala Met Arg Glu Tyr
260 265 270
Tyr Asn Glu Lys Leu Ile Asp Ile Phe Gln Lys Tyr Ser Asp Val
275 280 285
Ile Ala Gly Gln Phe Tyr Gly His Thr His Arg Asp Ser Ile Met
290 295 300
Val Leu Ser Asp Lys Lys Gly Ser Pro Val Asn Ser Leu Phe Val
305 310 315
Ala Pro Ala Val Thr Pro Val Lys Ser Val Leu Glu Lys Gln Thr
320 325 330
Asn Asn Pro Gly Ile Arg Leu Phe Gln Tyr Asp Pro Arg Asp Tyr
335 340 345
Lys Leu Leu Asp Met Leu Gln Tyr Tyr Leu Asn Leu Thr Glu Ala
350 355 360
Asn Leu Lys Gly Glu Ser Ile Trp Lys Leu Glu Tyr Ile Leu Thr

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                365                 370                 375
Gln Thr Tyr Asp Ile Glu Asp Leu Gln Pro Glu Ser Leu Tyr Gly
                380                 385                 390
Leu Ala Lys Gln Phe Thr Ile Leu Asp Ser Lys Gln Phe Ile Lys
                395                 400                 405
Tyr Tyr Asn Tyr Phe Phe Val Ser Tyr Asp Ser Ser Val Thr Cys
                410                 415                 420
Asp Lys Thr Cys Lys Ala Phe Gln Ile Cys Ala Ile Met Asn Leu
                425                 430                 435
Asp Asn Ile Ser Tyr Ala Asp Cys Leu Lys Gln Leu Tyr Ile Lys
                440                 445                 450
His Asn Tyr
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<210> 49
<211> 2107
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2264641CB1

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agccatgaat ggtgccggcc ctggccccgc cgcagccgcc ccggtcccag tcccggtccc 180
ggtcccggac tggcggcagt tctgcgagct gcatgcgcag gcggccgccg tggactttgc 240
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cagccgaggt cgagatgccg tcagagaatc cctgatccac gtcccgctag agacctttct 1260
gcagaccctg gaatccccgg gcggcagcgg cagtgacagc aataacacag gggaacaggg 1320
tgcagagacg gatcccgagg ctgaacccga gctggagcta tccgactacc catggttcca 1380
cgggacactg tcccgggtca aggctgctca actggttctg gcaggggggc cccggaacca 1440
cggcctcttc gtgatccgcc aaagtgagac tcggcctggg gagtacgtgc tgaccttcaa 1500
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cccactggag tcaggggggct cggccgacat cacccttcgc agctatgtgc gggcccagga 1680
ccccccacca gagccgggcc ccacgccccc tgccgcgccc gcgtccccgg cctgctggag 1740
cgactcgccc ggccagcact acttctccag cctcgccgcg gccgcctgcc cgcctgcctc 1800
gccctccgac gccgccggcg cctcctcgtc ttccgcctcg tcgtcctctg ccgcgtcggg 1860
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cgagcgcctg ctggaggccg tggccgccac cgccgccgag gagcccccgg aggccgcgcc 1980
cggccgcgcg cgccgccgtgg agaaccagta ctccttctac tagcccgcgg cgccgcccgg 2040
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tgcaaaa   2107

<210> 50
<211> 632
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2264641CD1

<400> 50

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Ala Gln Ala Ala Ala Val Asp Phe Ala His Lys Phe Cys Arg Phe
             35                  40                  45
Leu Arg Asp Asn Pro Ala Tyr Asp Thr Pro Asp Ala Gly Ala Ser
             50                  55                  60
Phe Ser Arg His Phe Ala Ala Asn Phe Leu Asp Val Phe Gly Glu
             65                  70                  75
Glu Val Arg Arg Val Leu Val Ala Gly Pro Thr Thr Arg Gly Ala
             80                  85                  90
Ala Val Ser Ala Glu Ala Met Glu Pro Glu Leu Ala Asp Thr Ser
             95                 100                 105
Ala Leu Lys Ala Ala Ser Tyr Gly His Ser Arg Ser Ser Glu Asp
            110                 115                 120
Val Ser Thr His Ala Ala Thr Lys Ala Arg Val Arg Lys Gly Phe
            125                 130                 135
Ser Leu Arg Asn Met Ser Leu Cys Val Val Asp Gly Val Arg Asp
            140                 145                 150
Met Trp His Arg Arg Ala Ser Pro Glu Pro Asp Ala Ala Ala Ala
            155                 160                 165
Pro Arg Thr Ala Glu Pro Arg Asp Lys Trp Thr Arg Arg Leu Arg
            170                 175                 180
Leu Ser Arg Thr Leu Ala Ala Lys Val Glu Leu Val Asp Ile Gln
            185                 190                 195
Arg Glu Gly Ala Leu Arg Phe Met Val Ala Asp Asp Ala Ala Ala
            200                 205                 210
Gly Ser Gly Gly Ser Ala Gln Trp Gln Lys Cys Arg Leu Leu Leu
            215                 220                 225
Arg Arg Ala Val Ala Glu Glu Arg Phe Arg Leu Glu Phe Phe Val
            230                 235                 240
Pro Pro Lys Ala Ser Arg Pro Lys Val Ser Ile Pro Leu Ser Ala
            245                 250                 255
Ile Ile Glu Val Arg Thr Thr Met Pro Leu Glu Met Pro Glu Lys
            260                 265                 270
Asp Asn Thr Phe Val Leu Lys Val Glu Asn Gly Ala Glu Tyr Ile
            275                 280                 285
Leu Glu Thr Ile Asp Ser Leu Gln Lys His Ser Trp Val Ala Asp
            290                 295                 300
Ile Gln Gly Cys Val Asp Pro Gly Asp Ser Glu Glu Asp Thr Glu
            305                 310                 315
Leu Ser Cys Thr Arg Gly Gly Cys Leu Ala Ser Arg Val Ala Ser
            320                 325                 330
Cys Ser Cys Glu Leu Leu Thr Asp Ala Val Asp Leu Pro Arg Pro
            335                 340                 345
Pro Glu Thr Thr Ala Val Gly Ala Val Val Thr Ala Pro His Ser
            350                 355                 360
Arg Gly Arg Asp Ala Val Arg Glu Ser Leu Ile His Val Pro Leu
            365                 370                 375
Glu Thr Phe Leu Gln Thr Leu Glu Ser Pro Gly Gly Ser Gly Ser
            380                 385                 390
Asp Ser Asn Asn Thr Gly Glu Gln Gly Ala Glu Thr Asp Pro Glu
            395                 400                 405
Ala Glu Pro Glu Leu Glu Leu Ser Asp Tyr Pro Trp Phe His Gly
            410                 415                 420
Thr Leu Ser Arg Val Lys Ala Ala Gln Leu Val Leu Ala Gly Gly
            425                 430                 435
Pro Arg Asn His Gly Leu Phe Val Ile Arg Gln Ser Glu Thr Arg
            440                 445                 450
Pro Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
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                455                     460                     465
His Leu Arg Leu Ser Leu Asn Gly His Gly Gln Cys His Val Gln
                470                     475                     480
His Leu Trp Phe Gln Ser Val Leu Asp Met Leu Arg His Phe His
                485                     490                     495
Thr His Pro Ile Pro Leu Glu Ser Gly Gly Ser Ala Asp Ile Thr
                500                     505                     510
Leu Arg Ser Tyr Val Arg Ala Gln Asp Pro Pro Pro Glu Pro Gly
                515                     520                     525
Pro Thr Pro Pro Ala Ala Pro Ala Ser Pro Ala Cys Trp Ser Asp
                530                     535                     540
Ser Pro Gly Gln His Tyr Phe Ser Ser Leu Ala Ala Ala Ala Cys
                545                     550                     555
Pro Pro Ala Ser Pro Ser Asp Ala Ala Gly Ala Ser Ser Ser Ser
                560                     565                     570
Ala Ser Ser Ser Ser Ala Ala Ser Gly Pro Ala Pro Pro Arg Pro
                575                     580                     585
Val Glu Gly Gln Leu Ser Ala Arg Ser Arg Ser Asn Ser Ala Glu
                590                     595                     600
Arg Leu Leu Glu Ala Val Ala Ala Thr Ala Ala Glu Glu Pro Pro
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Glu Ala Ala Pro Gly Arg Ala Arg Ala Val Glu Asn Gln Tyr Ser
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Phe Tyr
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<210> 51
<211> 1863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 237547CB1

<400> 51

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tcgggacgac acccagcgtt tatgggggtg ctggaggccg ggtatccgc atctccaact 180
ccagacacac ggtgaactat gggagcgatc tcacaggcgg cggggacctg tttgttggca 240
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ggaccctgga gcagtccaac tccaaacttg aagtgcaaat caagcagtgg tacgaaacca 360
acgccccgag ggctggtcgc gactacagtg catattacag acaaattgaa gagctgcgaa 420
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tggaagctga tctccaaggc ctgaataagg tctttgatga cctaacccta cataaaacag 600
atttggagat tcaaattgaa gaactgaata aagacctagc tctcctcaaa aaggagcatc 660
aggaggaagt cgatggccta cacaagcatc tgggcaacac tgtcaatgtg gaggttgatg 720
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gaaggagatg ctgctgaggt tttgaaagaa atttggctat aatcttatct ttgctccctg 1380
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ccctttggga gtccctggtt tcttattgag ccaatttctg ggttaatctt attgattttt 1800
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gcc 1863

<210> 52
<211> 424
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 237547CD1

<400> 52

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				20				25						30	
Thr	Thr	Pro	Ser	Val	Tyr	Gly	Gly	Ala	Gly	Gly	Arg	Gly	Ile	Arg	
				35				40						45	
Ile	Ser	Asn	Ser	Arg	His	Thr	Val	Asn	Tyr	Gly	Ser	Asp	Leu	Thr	
				50				55						60	
Gly	Gly	Gly	Asp	Leu	Phe	Val	Gly	Asn	Glu	Lys	Met	Ala	Met	Gln	
				65				70						75	
Asn	Leu	Asn	Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Glu	Lys	Val	Arg	Thr	
				80				85						90	
Leu	Glu	Gln	Ser	Asn	Ser	Lys	Leu	Glu	Val	Gln	Ile	Lys	Gln	Trp	
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Ala	Ala	Glu	Asp	Phe	Arg	Leu	Lys	Tyr	Glu	Thr	Glu	Arg	Gly	Ile	
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Arg	Leu	Thr	Val	Glu	Ala	Asp	Leu	Gln	Gly	Leu	Asn	Lys	Val	Phe	
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Glu	Met	Arg	Gln	Lys	Tyr	Glu	Val	Met	Ala	Gln	Lys	Asn	Leu	Gln	
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Gly	Glu	Asp	Val	Lys	Thr	Thr	Glu	Tyr	Gln	Leu	Ser	Thr	Leu	Glu	
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Phe Glu Asp Ile Val Ile Val Ile Asp Pro Ser Val Pro Glu Asp
             35                  40                  45
Glu Lys Ile Ile Glu Gln Ile Glu Asp Met Val Thr Thr Ala Ser
             50                  55                  60
Thr Tyr Leu Phe Glu Ala Thr Glu Lys Arg Phe Phe Phe Lys Asn
             65                  70                  75
Val Ser Ile Leu Ile Pro Glu Asn Trp Lys Glu Asn Pro Gln Tyr
             80                  85                  90
Lys Arg Pro Lys His Glu Asn His Lys His Ala Asp Val Ile Val
             95                 100                 105
Ala Pro Pro Thr Leu Pro Gly Arg Asp Glu Pro Tyr Thr Lys Gln
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Phe Thr Glu Cys Gly Glu Lys Gly Glu Tyr Ile His Phe Thr Pro
            125                 130                 135
Asp Leu Leu Leu Gly Lys Lys Gln Asn Glu Tyr Gly Pro Pro Gly
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Lys Leu Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val Phe
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Asp Glu Tyr Asn Glu Asp Gln Pro Phe Tyr Arg Ala Lys Ser Lys
            170                 175                 180
Lys Ile Glu Ala Thr Arg Cys Ser Ala Gly Ile Ser Gly Arg Asn
            185                 190                 195
Arg Val Tyr Lys Cys Gln Gly Gly Ser Cys Leu Ser Arg Ala Cys
            200                 205                 210
Arg Ile Asp Ser Thr Thr Lys Leu Tyr Gly Lys Asp Cys Gln Phe
            215                 220                 225
Phe Pro Asp Lys Val Gln Thr Glu Lys Ala Ser Ile Met Phe Met
            230                 235                 240
Gln Ser Ile Asp Ser Val Val Glu Phe Cys Asn Glu Lys Thr His
            245                 250                 255
Asn Gln Glu Ala Pro Ser Leu Gln Asn Ile Lys Cys Asn Phe Arg
            260                 265                 270
Ser Thr Trp Glu Val Ile Ser Asn Ser Glu Asp Phe Lys Asn Thr
            275                 280                 285
Ile Pro Met Val Thr Pro Pro Pro Pro Pro Val Phe Ser Leu Leu
            290                 295                 300
Lys Ile Ser Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly
            305                 310                 315
Ser Met Gly Gly Lys Asp Arg Leu Asn Arg Met Asn Gln Ala Ala
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Lys His Phe Leu Leu Gln Thr Val Glu Asn Gly Ser Trp Val Gly
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Met Val His Phe Asp Ser Thr Ala Thr Ile Val Asn Lys Leu Ile
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Gln Ile Lys Ser Ser Asp Glu Arg Asn Thr Leu Met Ala Gly Leu
            365                 370                 375
Pro Thr Tyr Pro Leu Gly Gly Thr Ser Ile Cys Ser Gly Ile Lys
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410 415 420
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425 430 435
Ile Ala Leu Gly Arg Ala Ala Asp Glu Ala Val Ile Glu Met Ser
440 445 450
Lys Ile Thr Gly Gly Ser His Phe Tyr Val Ser Asp Glu Ala Gln
455 460 465
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470 475 480
Thr Asp Leu Ser Gln Lys Ser Leu Gln Leu Glu Ser Lys Gly Leu
485 490 495
Thr Leu Asn Ser Asn Ala Trp Met Asn Asp Thr Val Ile Ile Asp
500 505 510
Ser Thr Val Gly Lys Asp Thr Phe Phe Leu Ile Thr Trp Asn Ser
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Glu Asn Phe Thr Val Asp Ala Thr Ser Lys Met Ala Tyr Leu Ser
545 550 555
Ile Pro Gly Thr Ala Lys Val Gly Thr Trp Ala Tyr Asn Leu Gln
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Ala Lys Ala Asn Pro Glu Thr Leu Thr Ile Thr Val Thr Ser Arg
575 580 585
Ala Ala Asn Ser Ser Val Pro Pro Ile Thr Val Asn Ala Lys Met
590 595 600
Asn Lys Asp Val Asn Ser Phe Pro Ser Pro Met Ile Val Tyr Ala
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Glu Ile Leu Gln Gly Tyr Val Pro Val Leu Gly Ala Asn Val Thr
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Tyr Ser Arg Tyr Phe Thr Ala Tyr Thr Glu Asn Gly Arg Tyr Ser
665 670 675
Leu Lys Val Arg Ala His Gly Gly Ala Asn Thr Ala Arg Leu Lys
680 685 690
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695 700 705
Val Asn Gly Glu Ile Glu Ala Asn Pro Pro Arg Pro Glu Ile Asp
710 715 720
Glu Asp Thr Gln Thr Thr Leu Glu Asp Phe Ser Arg Thr Ala Ser
725 730 735
Gly Gly Ala Phe Val Val Ser Gln Val Pro Ser Leu Pro Leu Pro
740 745 750
Asp Gln Tyr Pro Pro Ser Gln Ile Thr Asp Leu Asp Ala Thr Val
755 760 765
His Glu Asp Lys Ile Ile Leu Thr Trp Thr Ala Pro Gly Asp Asn
770 775 780
Phe Asp Val Gly Lys Val Gln Arg Tyr Ile Ile Arg Ile Ser Ala
785 790 795
Ser Ile Leu Asp Leu Arg Asp Ser Phe Asp Asp Ala Leu Gln Val
800 805 810
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815 820 825
Phe Ala Phe Lys Pro Glu Asn Ile Ser Glu Glu Asn Ala Thr His
830 835 840
Ile Phe Ile Ala Ile Lys Ser Ile Asp Lys Ser Asn Leu Thr Ser
845 850 855
Lys Val Ser Asn Ile Ala Gln Val Thr Leu Phe Ile Pro Gln Ala
860 865 870
Asn Pro Asp Asp Ile Asp Pro Thr Pro Thr Pro Thr Pro Thr Pro
875 880 885

Asp Lys Ser His Asn Ser Gly Val Asn Ile Ser Thr Leu Val Leu
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gcagcggggt cccgcgatgt cagcctagcg aaggcagacg ctgctcctga tgagaaggtg 1920
ctagactctg gttttcggga gattgagaac aaagccattc aggatcccag gctttttgca 1980
gaggaaaagg cggtggcaga tacaagagat caagccgatg ggagcagagc atctgtggat 2040
tccggcagct ctgaggaaca aggtggaagc tccagagcgc tggtctccac cctggtgccc 2100
ctgggcctgg tgctggcagt gggagccgtg gctgtggggg tggccagagc ccggcacagg 2160
aagaacgtcg accgagtttc aatcagaagc tacaggacag acattagcat gtcagacttc 2220
gagaactcca gggaatttgg agccaatgac aacatgggag cctcttcgat cactcaggag 2280
acatccctcg gaggaaaaga agagtttgtt gccaccactg agagcaccac agagaccaaa 2340
gaacccaaga aggcaaaaag gtcatccaag gaggaagccg agatggccta caaagacttc 2400
ctgctccagt ccagcaccgt ggccgccgag gcccaggacg gcccccagga agcctagacg 2460
gtgtcgccgc ctgctccctg cacccatgac aatcaccttc agaatcatgt cgatcctggg 2520
gccctcagct cctggggacc ccactccctg ctctaacacc tgcctaggtt tttcctactg 2580
tcctcagagg cgtgctggtc ccctcctcag tgacatcaaa gcctggccta attgttccta 2640
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caggtacgga gaagaataga ggtcctcatg ggtcccttga aggaagaggg accagggtgg 2760
gagagctgat tgcagaaagg agagacgtgc agcgcccctc tgcaccctta tcatgggatg 2820
tcaacagaat ttttccctcc actccatccc tccctcccgt ccttcccctc ttcttctttc 2880
cttccatcaa aagatgtatt tgaattcata ctagaattca ggtgctttgc tagatgctgt 2940
gacaggtatg cctacaacac tgctcacagc ctttctgagg acaccagtga aagaagctac 3000
agctcttctt ggcgtattta tactcactga gtcttaactt ttcaccaggg gtgctcacgt 3060
ctgcccctag tgggagaggt cataaaatgt ctcgagtcct aaggacttag gggtcatgta 3120
tgatgagcat acacacaggt aattataaa 3149

<210> 59
<211> 764
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2680109CD1

<400> 59
Met Leu Leu Phe Val Leu Thr Cys Leu Leu Ala Val Phe Pro Ala
1 5 10 15
Ile Ser Thr Lys Ser Pro Ile Phe Gly Pro Glu Glu Val Asn Ser
20 25 30
Val Glu Gly Asn Ser Val Ser Ile Thr Cys Tyr Tyr Pro Pro Thr
35 40 45
Ser Val Asn Arg His Thr Arg Lys Tyr Trp Cys Arg Gln Gly Ala
50 55 60
Arg Gly Gly Cys Ile Thr Leu Ile Ser Ser Glu Gly Tyr Val Ser
65 70 75
Ser Lys Tyr Ala Gly Arg Ala Asn Leu Thr Asn Phe Pro Glu Asn
80 85 90
Gly Thr Phe Val Val Asn Ile Ala Gln Leu Ser Gln Asp Asp Ser
95 100 105
Gly Arg Tyr Lys Cys Gly Leu Gly Ile Asn Ser Arg Gly Leu Ser
110 115 120
Phe Asp Val Ser Leu Glu Val Ser Gln Gly Pro Gly Leu Leu Asn
125 130 135
Asp Thr Lys Val Tyr Thr Val Asp Leu Gly Arg Thr Val Thr Ile
140 145 150
Asn Cys Pro Phe Lys Thr Glu Asn Ala Gln Lys Arg Lys Ser Leu
155 160 165
Tyr Lys Gln Ile Gly Leu Tyr Pro Val Leu Val Ile Asp Ser Ser
170 175 180
Gly Tyr Val Asn Pro Asn Tyr Thr Gly Arg Ile Arg Leu Asp Ile
185 190 195

```
Gln Gly Thr Gly Gln Leu Leu Phe Ser Val Val Ile Asn Gln Leu
                200                 205                 210
Arg Leu Ser Asp Ala Gly Gln Tyr Leu Cys Gln Ala Gly Asp Asp
                215                 220                 225
Ser Asn Ser Asn Lys Lys Asn Ala Asp Leu Gln Val Leu Lys Pro
                230                 235                 240
Glu Pro Glu Leu Val Tyr Glu Asp Leu Arg Gly Ser Val Thr Phe
                245                 250                 255
His Cys Ala Leu Gly Pro Glu Val Ala Asn Val Ala Lys Phe Leu
                260                 265                 270
Cys Arg Gln Ser Ser Gly Glu Asn Cys Asp Val Val Val Asn Thr
                275                 280                 285
Leu Gly Lys Arg Ala Pro Ala Phe Glu Gly Arg Ile Leu Leu Asn
                290                 295                 300
Pro Gln Asp Lys Asp Gly Ser Phe Ser Val Val Ile Thr Gly Leu
                305                 310                 315
Arg Lys Glu Asp Ala Gly Arg Tyr Leu Cys Gly Ala His Ser Asp
                320                 325                 330
Gly Gln Leu Gln Glu Gly Ser Pro Ile Gln Ala Trp Gln Leu Phe
                335                 340                 345
Val Asn Glu Glu Ser Thr Ile Pro Arg Ser Pro Thr Val Val Lys
                350                 355                 360
Gly Val Ala Gly Ser Ser Val Ala Val Leu Cys Pro Tyr Asn Arg
                365                 370                 375
Lys Glu Ser Lys Ser Ile Lys Tyr Trp Cys Leu Trp Glu Gly Ala
                380                 385                 390
Gln Asn Gly Arg Cys Pro Leu Leu Val Asp Ser Glu Gly Trp Val
                395                 400                 405
Lys Ala Gln Tyr Glu Gly Arg Leu Ser Leu Leu Glu Glu Pro Gly
                410                 415                 420
Asn Gly Thr Phe Thr Val Ile Leu Asn Gln Leu Thr Ser Arg Asp
                425                 430                 435
Ala Gly Phe Tyr Trp Cys Leu Thr Asn Gly Asp Thr Leu Trp Arg
                440                 445                 450
Thr Thr Val Glu Ile Lys Ile Ile Glu Gly Glu Pro Asn Leu Lys
                455                 460                 465
Val Pro Gly Asn Val Thr Ala Val Leu Gly Glu Thr Leu Lys Val
                470                 475                 480
Pro Cys His Phe Pro Cys Lys Phe Ser Ser Tyr Glu Lys Tyr Trp
                485                 490                 495
Cys Lys Trp Asn Asn Thr Gly Cys Gln Ala Leu Pro Ser Gln Asp
                500                 505                 510
Glu Gly Pro Ser Lys Ala Phe Val Asn Cys Asp Glu Asn Ser Arg
                515                 520                 525
Leu Val Ser Leu Thr Leu Asn Leu Val Thr Arg Ala Asp Glu Gly
                530                 535                 540
Trp Tyr Trp Cys Gly Val Lys Gln Gly His Phe Tyr Gly Glu Thr
                545                 550                 555
Ala Ala Val Tyr Val Ala Val Glu Glu Arg Lys Ala Ala Gly Ser
                560                 565                 570
Arg Asp Val Ser Leu Ala Lys Ala Asp Ala Ala Pro Asp Glu Lys
                575                 580                 585
Val Leu Asp Ser Gly Phe Arg Glu Ile Glu Asn Lys Ala Ile Gln
                590                 595                 600
Asp Pro Arg Leu Phe Ala Glu Glu Lys Ala Val Ala Asp Thr Arg
                605                 610                 615
Asp Gln Ala Asp Gly Ser Arg Ala Ser Val Asp Ser Gly Ser Ser
                620                 625                 630
Glu Glu Gln Gly Gly Ser Ser Arg Ala Leu Val Ser Thr Leu Val
                635                 640                 645
Pro Leu Gly Leu Val Leu Ala Val Gly Ala Val Ala Val Gly Val
                650                 655                 660
Ala Arg Ala Arg His Arg Lys Asn Val Asp Arg Val Ser Ile Arg
                665                 670                 675
Ser Tyr Arg Thr Asp Ile Ser Met Ser Asp Phe Glu Asn Ser Arg
                680                 685                 690
```

```
Glu Phe Gly Ala Asn Asp Asn Met Gly Ala Ser Ser Ile Thr Gln
                695                 700                 705
Glu Thr Ser Leu Gly Gly Lys Glu Glu Phe Val Ala Thr Thr Glu
                710                 715                 720
Ser Thr Thr Glu Thr Lys Glu Pro Lys Lys Ala Lys Arg Ser Ser
                725                 730                 735
Lys Glu Glu Ala Glu Met Ala Tyr Lys Asp Phe Leu Leu Gln Ser
                740                 745                 750
Ser Thr Val Ala Ala Glu Ala Gln Asp Gly Pro Gln Glu Ala
                755                 760
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<210> 60
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1800311CB1

<400> 60
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ctctctcggg cactgctgcc atgaatgcct tcctgctctt cgcactgtgc ctccttgggg 120
cctgggccgc cttggcagga ggggtcaccg tgcaggatgg aaatttctcc ttttctctgg 180
agtcagtgaa gaagctcaaa gacctccagg agccccagga gcccagggtt gggaaactca 240
ggaactttgc acccatccct ggtgaacctg tggttcccat cctctgtagc aacccgaact 300
ttccagaaga actcaagcct ctctgcaagg agcccaatgc ccaggagata cttcagaggc 360
tggaggaaat cgctgaggac ccgggcacat gtgaaatctg tgcctacgct gcctgtaccg 420
gatgctaggg gggcttgccc actgcctgcc tcccctccgc agcagggaag ctcttttctc 480
ctgcagaaag ggccacccat gatactccac tcccagcagc tcaacctacc ctggtccagt 540
cgggaggagc agcccgggga ggaactgggt gactggaggc ctcgccccaa cactgtcctt 600
ccctgccact tcaaccccca gctaataaac cagattccag agtaaaaaaa aaaaa 655

<210> 61
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1800311CD1

<400> 61
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Met Asn Ala Phe Leu Leu Phe Ala Leu Cys Leu Leu Gly Ala Trp
  1               5                  10                  15
Ala Ala Leu Ala Gly Gly Val Thr Val Gln Asp Gly Asn Phe Ser
             20                  25                  30
Phe Ser Leu Glu Ser Val Lys Lys Leu Lys Asp Leu Gln Glu Pro
             35                  40                  45
Gln Glu Pro Arg Val Gly Lys Leu Arg Asn Phe Ala Pro Ile Pro
             50                  55                  60
Gly Glu Pro Val Val Pro Ile Leu Cys Ser Asn Pro Asn Phe Pro
             65                  70                  75
Glu Glu Leu Lys Pro Leu Cys Lys Glu Pro Asn Ala Gln Glu Ile
             80                  85                  90
Leu Gln Arg Leu Glu Glu Ile Ala Glu Asp Pro Gly Thr Cys Glu
             95                 100                 105
Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
            110                 115
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<210> 62
<211> 1312
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 1804734CB1

<400> 62
gtccctagga gataagagta tcttgcacag caggtgcagg tttcccagca gctcaggcaa 60
gagtccgatg tttgtgccat ctgatcctga tgtctggaga gcagatagcc atgtgtgagc 120
ctgaatttgg caatgacaag gccagggagc cgagcgtggg tggcaggtgg cgagtgtcct 180
ggtacgaacg gtttgtgcag ccatgtctgg tcgaactgct gggctctgct ctcttcatct 240
tcatcgggtg cctgtcggtc attgagaatg ggacggacac tgggctgctg cagccggccc 300
tggcccacgg gctggctttg gggctcgtga ttgccacgct ggggaatatc agtggtggac 360
acttcaaccc tgcggtgtcc ctggcagcca tgctgatcgg aggcctcaac ctggtgatgc 420
tcctcccgta ctgggtctca cagctgctcg gggggatgct cggggctgcc ttggccaagg 480
cggtgagtcc tgaggagagg ttctggaatg catctggggc ggcctttgtg acagtccagg 540
agcaggggca ggtggcaggg gcgttggtgg cagagatcat cctgacgacg ctgctggccc 600
tggctgtatg catgggtgcc atcaatgaga agacaaaggg ccctctggcc ccgttctcca 660
tcggctttgc cgtcaccgtg gatatcctgg ctgggggccc tgtgtctgga ggctgcatga 720
atcccgcccg tgcttttgga cctgcggtgg tggccaacca ctggaacttc cactggatct 780
actggctggg cccactcctg gctggcctgc ttgttggact gctcattagg tgcttcattg 840
gagatgggaa gacccgcctc atcctgaagg ctcggtgaag cagagctcgt gggattcctg 900
ctgctccagg tgtcctcagc tcacctgtcc cagactgagg acaggggagt tcctgcattt 960
cctgccaggg cagaggccca gaggagcgac cccctgcttc cactgcttgg gcctgctttc 1020
tcagatagac tgactgctga ggaggctcta ggttcttgga attcctttgt gctcatcaga 1080
gaccccagcc tggggaacac gctgcccgca ctgcccagag agcagtgcaa acaccacaac 1140
acgagcgtgt ttcttgagag gaatgtcccc gagttggaca aggaggctgt ttctgcacat 1200
cagctcattt cccgcacccc atttcttgct tgattgcttt gttgggggcc tggccacttc 1260
cttgcttctc aagctgacaa ttctcacttt gcaataaata gtccagtgtt tc 1312

<210> 63
<211> 262
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1804734CD1

<400> 63
Met Ser Gly Glu Gln Ile Ala Met Cys Glu Pro Glu Phe Gly Asn
1 5 10 15
Asp Lys Ala Arg Glu Pro Ser Val Gly Gly Arg Trp Arg Val Ser
20 25 30
Trp Tyr Glu Arg Phe Val Gln Pro Cys Leu Val Glu Leu Leu Gly
35 40 45
Ser Ala Leu Phe Ile Phe Ile Gly Cys Leu Ser Val Ile Glu Asn
50 55 60
Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala Leu Ala His Gly Leu
65 70 75
Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn Ile Ser Gly Gly
80 85 90
His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu Ile Gly Gly
95 100 105
Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln Leu Leu
110 115 120
Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro Glu
125 130 135
Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
140 145 150
Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu
155 160 165
Thr Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu
170 175 180
Lys Thr Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val
185 190 195
Thr Val Asp Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met
200 205 210
Asn Pro Ala Arg Ala Phe Gly Pro Ala Val Val Ala Asn His Trp

```
                215                 220                 225
Asn Phe His Trp Ile Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu
                230                 235                 240
Leu Val Gly Leu Leu Ile Arg Cys Phe Ile Gly Asp Gly Lys Thr
                245                 250                 255
Arg Leu Ile Leu Lys Ala Arg
                260
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<210> 64
<211> 1556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3231154CB1

<400> 64

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tctcgggacc tttggagtag gtgacacatg agcccagccc cagctcacct gccaatccag 120
ctgaggagct cacctgccaa tccagctgag gctgggcaga ggtgggtgag aagagggaaa 180
attgcaggga cctccagttg ggccaggcca gaagctgctg tagctttaac cagacagctc 240
agacctgtct ggaggctgcc agtgacaggt taggtttagg gcagagaaga agcaagacca 300
tggtggggaa gatgtggcct gtgttgtgga cactctgtgc agtcagggtg accgtcgatg 360
ccatctctgt ggaaactccg caggacgttc ttcgggcttc gcagggaaag agtgtcaccc 420
tgccctgcac ctaccacact tccacctcca gtcgagaggg acttattcaa tgggataagc 480
tcctcctcac tcatacggaa agggtggtca tctggccgtt ttcaaacaaa aactacatcc 540
atggtgagct ttataagaat cgcgtcagca tatccaacaa tgctgagcag tccgatgcct 600
ccatcaccat tgatcagctg accatggctg acaacggcac ctacgagtgt tctgtctcgc 660
tgatgtcaga cctggagggc aacaccaagt cacgtgtccg cctgttggtc ctcgtgccac 720
cctccaaacc agaatgcggc atcgagggag agaccataat tgggaacaac atccagctga 780
cctgccaatc aaaggagggc tcaccaaccc ctcagtacag ctggaagagg tacaacatcc 840
tgaatcagga gcagcccctg gcccagccag cctcaggtca gcctgtctcc ctgaagaata 900
tctccacaga cacatcgggt tactacatct gtacctccag caatgaggag gggacgcagt 960
tctgcaacat cacggtggcc gtcagatctc cctccatgaa cgtggccctg tatgtgggca 1020
tcgcggtggg cgtggttgca gccctcatta tcattggcat catcatctac tgctgctgct 1080
gccgagggaa ggacgacaac actgaagaca aggaggatgc aaggccgaac cgggaagcct 1140
atgaggagcc accagagcag ctaagagaac tttccagaga gagggaggag gaggatgact 1200
acaggcaaga agagcagagg agcactgggc gtgaatcccc ggaccacctc gaccagtgac 1260
aggccagcag cagagggcgg cggaggaagg gttaggggtt cattctcccg cttcctggcc 1320
tcccttctcc tttctaagcc ctgttctcct gtccctccat cccagacatt gatggggaca 1380
tttcttcccc agtgtcagct gtggggaaca tggctggcct ggtaaggggg tccctgtgct 1440
gatcctgctg acctcactgt cctgtgaagt aacccctcct ggctgtgaca cctggtgcgg 1500
gcctggccct cactcaagac caggctgcag cctccattcc tcgtagttgg caggag     1556
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<210> 65
<211> 319
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3231154CD1

<400> 65

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Met Val Gly Lys Met Trp Pro Val Leu Trp Thr Leu Cys Ala Val
  1               5                  10                  15
Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro Gln Asp Val
                20                  25                  30
Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr
                35                  40                  45
His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys
                50                  55                  60
Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
                65                  70                  75
Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser
```

```
                 80                  85                  90
Ile Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp
                 95                 100                 105
Gln Leu Thr Met Ala Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser
                110                 115                 120
Leu Met Ser Asp Leu Glu Gly Asn Thr Lys Ser Arg Val Arg Leu
                125                 130                 135
Leu Val Leu Val Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu Gly
                140                 145                 150
Glu Thr Ile Ile Gly Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys
                155                 160                 165
Glu Gly Ser Pro Thr Pro Gln Tyr Ser Trp Lys Arg Tyr Asn Ile
                170                 175                 180
Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro Ala Ser Gly Gln Pro
                185                 190                 195
Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser Gly Tyr Tyr Ile
                200                 205                 210
Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys Asn Ile Thr
                215                 220                 225
Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr Val Gly
                230                 235                 240
Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile Ile
                245                 250                 255
Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp
                260                 265                 270
Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro Pro
                275                 280                 285
Glu Gln Leu Arg Glu Leu Ser Arg Glu Arg Glu Glu Glu Asp Asp
                290                 295                 300
Tyr Arg Gln Glu Glu Gln Arg Ser Thr Gly Arg Glu Ser Pro Asp
                305                 310                 315
His Leu Asp Gln
```

<210> 66
<211> 3476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 210095.11

<400> 66

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aaaacagcag aggtgacaga gcagccgtgc tcgaagcgtt cctggagccc aagctctctt 60
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agagtgcgtg taccctggca ggggcttctg ctcacagcct cacttctaac cttctggaac 180
ccgcccacca ctgcccagct cactactgaa tccatgccat tcaatgttgc agaggggaag 240
gaggttcttc tccttgtcca caatctgccc cagcaacttt ttggctacag ctggtacaaa 300
ggggaaagag tggatggcaa ccgtcaaatt gtaggatatg caataggaac tcaacaagct 360
accccagggc ccgcaaacag cggtcgagag acaatatacc ccaatgcatc cctgctgatc 420
cagaacgtca cccagaatga cacaggattc tacaccctac aagtcataaa gtcagatctt 480
gtgaatgaag aagcaactgg acagttccat gtatacccgg agctgcccaa gccctccatc 540
tccagcaaca actccaaccc tgtggaggac aaggatgctg tggccttcac ctgtgaacct 600
gagactcagg acacaaccta cctgtggtgg ataaacaatc agagcctccc ggtcagtccc 660
aggctgcagc tgtccaatgg caacaggacc ctcactctac tcagtgtcac aaggaatgac 720
acaggaccct atgagtgtga aatacagaac ccagtgagtg cgaaccgcag tgacccagtc 780
accttgaatg tcacctatgg cccggacacc cccaccattt ccccttcaga cacctattac 840
cgtccagggg caaacctcag cctctcctgc tatgcagcct ctaacccacc tgcacagtac 900
tcctggctta tcaatggaac attccagcaa agcacacaag agctctttat ccctaacatc 960
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aggaccacag tcaagacgat catagtcact gagctaagtc cagtagtagc aaagccccaa 1080
atcaaagcca gcaagaccac agtcacagga gataaggact ctgtgaacct gacctgctcc 1140
acaaatgaca ctggaatctc catccgttgg ttcttcaaaa accagagtct cccgtcctcg 1200
gagaggatga agctgtccca gggcaacacc accctcagca taaaccctgt caagagggag 1260
gatgctggga cgtattggtg tgaggtcttc aacccaatca gtaagaacca aagcgacccc 1320
```

atcatgctga acgtaaacta taatgctcta ccacaagaaa atggcctctc acctggggcc 1380
attgctggca ttgtgattgg agtagtggcc ctggttgctc tgatagcagt agccctggca 1440
tgttttctgc atttcgggaa gaccggcagg gcaagcgacc agcgtgatct cacagagcac 1500
aaaccctcag tctccaacca cactcaggac cactccaatg acccacctta caagatgaat 1560
gaagttactt attctaccct gaactttgaa gcccagcaac ccacacaacc aacttcagcc 1620
tccccatccc taacagccac agaaataatt tattcagaag taaaaaagca gtaatgaaac 1680
ctgtcctgct cactgcagtg ctgatgtatt tcaagtctct caccctcatc actaggagat 1740
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cctaataggc atctccaggc tgcctggtca ctgcccctct ctcagtgtca atagatgaaa 1860
gtacattggg agtctgtagg aaacccaacc ttcttgtcat tgaaatttgg caaagctgac 1920
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taaacttgcc tgttcagagc actcattcct tcccaccccc agtcctgtcc tatcactcta 2040
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acaagagaga gagaaagtaa aggcagtaat gccttctcct atttctccaa agccttgtgt 2160
gaactcacca aacacaagaa aatcaaatat ataaccaata gtgaaatgcc acacctttgt 2220
ccactgtcag ggttgtctac ctgtaggatc agggtctaag caccttggtg cttagctaga 2280
ataccaccta atccttctgg caagcctgtc ttcagagaac ccactagaag caactaggaa 2340
aatcacttgc caaaatccaa ggcaattcct gatggaaaat gcaaaagcac atatatgttt 2400
taatatcttt atgggctctg ttcaaggcag tgctgagagg gaggggttat agcttcagga 2460
gggaaccagc ttctgataaa cacaatctgc taggaacttg ggaaaggaat cagagagctg 2520
cccttcagcg attatttaaa ttattgttaa agaatacaca atttggggta ttgggatttt 2580
tctccttttc tctgagacat tccaccattt taatttttgt aactgcttat ttatgtgaaa 2640
agggttattt ttacttagct tagctatgtc agccaatccg attgccttag gtgaaagaaa 2700
ccaccgaaat ccctcaggtc ccttggtcag gagcctctca agatttttt tgtcagaggc 2760
tccaaataga aaataagaaa aggttttctt cattcatggc tagagctaga tttaactcag 2820
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ttttctgttt gcccccattc actttgtcag gaaaccttgg cctctgctaa ggtgtatttg 2940
gtccttgaga agtgggagca ccctacaggg acactatcac tcatgctggt ggcattgttt 3000
acagctagaa agctgcactg gtgctaatgc cccttgggga aatggggctg tgaggaggag 3060
gattataact taggcctagc ctcttttaac agcctctgaa atttatcttt tcttctatgg 3120
ggtctataaa tgtatcttat aataaaaagg aaggacagga ggaagacagg caaatgtact 3180
tctcacccag tcttctacac agatggaatc tctttggggc taagagaaag gttttattct 3240
atattgctta cctgatctca tgttaggcct aagaggcttt ctccaggagg attagcttgg 3300
agttctctat actcaggtac ctctttcagg gttttctaac cctgacacgg actgtgcata 3360
ctttccctca tccatgctgt gctgtgttat ttaatttttc ctggctaaga tcatgtctga 3420
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<210> 67
<211> 1237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2719813CB1

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cagtgcagag tcacactggt gctacgaggt tcaagccgag tcctccaact acccctgctt 180
ggtgccagtc aagtggggtg gaaactgcca gaaggaccgc cagtccccca tcaacatcgt 240
caccaccaag gcaaaggtgg acaaaaaact gggacgcttc ttcttctctg gctacgataa 300
gaagcaaacg tggactgtcc aaaataacgg gcactcagtg atgatgttgc tggagaacaa 360
ggccagcatt tctggaggag gactgcctgc cccataccag gccaaacagt tgcacctgca 420
ctggtccgac ttgccatata agggctcgga gcacagcctc gatggggagc actttgccat 480
ggagatgcac atagtacatg agaaagagaa ggggacatcg aggaatgtga aagaggccca 540
ggaccctgaa gacgaaattg cggtgctggc ctttctggtg gaggctggaa cccaggtgaa 600
cgagggcttc cagccactgg tggaggcact gtctaatatc cccaaacctg agatgagcac 660
tacgatggca gagagcagcc tgttggacct gctccccaag gaggagaaac tgaggcacta 720
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gttccgggag cccattcagc ttcacagaga acagatcctg gcattctctc agaagctgta 840
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gcagcgcacg gtgataaagt ccggggcccc gggtcggccg ctgccctggg ccctgcctgc 960
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cccaggtggg actttaggca tgattaaaat atggacatat ttttggagaa acctttctca 1140

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<210> 68
<211> 312
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2719813CD1

<400> 68

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Ser	Ala	Ser	Ala	Glu	Ser	His	Trp	Cys	Tyr	Glu	Val	Gln	Ala	Glu	
				20				25						30	
Ser	Ser	Asn	Tyr	Pro	Cys	Leu	Val	Pro	Val	Lys	Trp	Gly	Gly	Asn	
				35				40						45	
Cys	Gln	Lys	Asp	Arg	Gln	Ser	Pro	Ile	Asn	Ile	Val	Thr	Thr	Lys	
				50				55						60	
Ala	Lys	Val	Asp	Lys	Lys	Leu	Gly	Arg	Phe	Phe	Phe	Ser	Gly	Tyr	
				65				70						75	
Asp	Lys	Lys	Gln	Thr	Trp	Thr	Val	Gln	Asn	Asn	Gly	His	Ser	Val	
				80				85						90	
Met	Met	Leu	Leu	Glu	Asn	Lys	Ala	Ser	Ile	Ser	Gly	Gly	Gly	Leu	
				95				100						105	
Pro	Ala	Pro	Tyr	Gln	Ala	Lys	Gln	Leu	His	Leu	His	Trp	Ser	Asp	
				110				115						120	
Leu	Pro	Tyr	Lys	Gly	Ser	Glu	His	Ser	Leu	Asp	Gly	Glu	His	Phe	
				125				130						135	
Ala	Met	Glu	Met	His	Ile	Val	His	Glu	Lys	Glu	Lys	Gly	Thr	Ser	
				140				145						150	
Arg	Asn	Val	Lys	Glu	Ala	Gln	Asp	Pro	Glu	Asp	Glu	Ile	Ala	Val	
				155				160						165	
Leu	Ala	Phe	Leu	Val	Glu	Ala	Gly	Thr	Gln	Val	Asn	Glu	Gly	Phe	
				170				175						180	
Gln	Pro	Leu	Val	Glu	Ala	Leu	Ser	Asn	Ile	Pro	Lys	Pro	Glu	Met	
				185				190						195	
Ser	Thr	Thr	Met	Ala	Glu	Ser	Ser	Leu	Leu	Asp	Leu	Leu	Pro	Lys	
				200				205						210	
Glu	Glu	Lys	Leu	Arg	His	Tyr	Phe	Arg	Tyr	Leu	Gly	Ser	Leu	Thr	
				215				220						225	
Thr	Pro	Thr	Cys	Asp	Glu	Lys	Val	Val	Trp	Thr	Val	Phe	Arg	Glu	
				230				235						240	
Pro	Ile	Gln	Leu	His	Arg	Glu	Gln	Ile	Leu	Ala	Phe	Ser	Gln	Lys	
				245				250						255	
Leu	Tyr	Tyr	Asp	Lys	Glu	Gln	Thr	Val	Ser	Met	Lys	Asp	Asn	Val	
				260				265						270	
Arg	Pro	Leu	Gln	Gln	Leu	Gly	Gln	Arg	Thr	Val	Ile	Lys	Ser	Gly	
				275				280						285	
Ala	Pro	Gly	Arg	Pro	Leu	Pro	Trp	Ala	Leu	Pro	Ala	Leu	Leu	Gly	
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Pro	Met	Leu	Ala	Cys	Leu	Leu	Ala	Gly	Phe	Leu	Arg				
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<211> 973
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2886583CB1

<400> 69

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ctggagcccc catcctcctg cggcagatgt tcgagcctgt gagctgcacc ttcacgtacc 180
tgctgggtga cagagagtcc cgggaggccg ttctgatcga cccagtcctg gaaacagcgc 240
ctcgggatgc ccagctgatc aaggagctgg ggctgcggct gctctatgct gtgaataccc 300
actgccacgc ggaccacatt acaggctcgg ggctgctccg ttccctcctc cctggctgcc 360
agtctgtcat ctcccgcctt agtggggccc aggctgactt acacattgag gatggagact 420
ccatccgctt cgggcgcttc gcgttggaga ccagggccag ccctggccac accccaggct 480
gtgtcacctt cgtcctgaat gaccacagca tggccttcac tggagatgcc ctgttgatcc 540
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atgaaaagat cttcacactt ccaggagact gtctgatcta ccctgctcac gattaccatg 660
ggttcacagt gtccaccgtg gaggaggaga ggactctgaa ccctcggctc accctcagct 720
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aaaaaaaaaa aaa 973

<210> 70
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2886583CD1

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20 25 30
Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
35 40 45
Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg
50 55 60
Asp Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala
65 70 75
Val Asn Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu
80 85 90
Leu Arg Ser Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu
95 100 105
Ser Gly Ala Gln Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile
110 115 120
Arg Phe Gly Arg Phe Ala Leu Glu Thr Arg Ala Ser Pro Gly His
125 130 135
Thr Pro Gly Cys Val Thr Phe Val Leu Asn Asp His Ser Met Ala
140 145 150
Phe Thr Gly Asp Ala Leu Leu Ile Arg Gly Cys Gly Arg Thr Asp
155 160 165
Phe Gln Gln Gly Cys Ala Lys Thr Leu Tyr His Ser Val His Glu
170 175 180
Lys Ile Phe Thr Leu Pro Gly Asp Cys Leu Ile Tyr Pro Ala His
185 190 195
Asp Tyr His Gly Phe Thr Val Ser Thr Val Glu Glu Glu Arg Thr
200 205 210
Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu Phe Val Lys Ile
215 220 225
Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile Asp Phe Ala
230 235 240
Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr Ala
245 250

<210> 71
<211> 643
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 025685.3

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tcagcagtgc tcagaaacaa tttaacatgt tgaaacgaca atattctaaa atactgatga 180
atcttgcatc aatataatta ttgggttttt ttctttttcc tgctgtataa ctccttgcca 240
tgcaaactct caagaggcca atatattcct ggccatgttt gaatgagcct cttaaaataa 300
acttagagcc atgcaaatgc cagcagctta atggatttca tggaatgaaa taccgtgatt 360
aactcatagc tacatatcat tgcataaatg ggatttatct tttttctcac ttatttttg 420
ctgtgaaagt cgagggcatg caagagtttc tcttccagaa gccaggagga gaacgaaggt 480
cctaatgctg tactattcca ccctttggac gcctcatcca ggacgcagag gactctaggt 540
ttaacatttt gtacaaaaca gaacctgtta atcacattaa agcacatatg tatatatctt 600
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<210> 72
<211> 2879
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1808144CB1

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aagaagtgtt caccacatag ttgcaaaggt cttcaacttg ccacagccaa cagaaaaatc 180
aaaatgattg aacccttttgg gaatcagtat attgtggcca ggccagtgta ttctacaaat 240
gcttttgagg aaaatcataa aaagacagga agacatcata agacatttct ggatcatctc 300
aaagtgtgtt gtagctgttc cccacaaaag gccaagagaa ttgtcctctc tttgttcccc 360
atagcatctt ggttgccagc ataccggctt aaagaatggt tgctcagtga tattgtttct 420
ggtatcagca cagggattgt ggccgtacta caaggtttag catttgctct gctggtcgac 480
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ggcacttcca gacacatatc cgtgggtccg tttccgattc tgagtatgat ggtgggacta 600
gcagtttcag gagcagtttc aaaagcagtc ccagatcgca atgcaactac tttgggattg 660
cctaacaact cgaataattc ttcactactg gatgacgaga gggtgagggt ggcggcggcg 720
gcatcagtca cagtgctttc tggaatcatc cagttggctt ttgggattct gcggattgga 780
tttgtagtga tatacctgtc tgagtccctc atcagtggct tcactactgc tgctgctgtt 840
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atcaatacca cagacctgcc tttccacatt gactggaatg atgatcttcc tctcaacatt 2100
gaggtcccca aaatcagcct ccacagcctc attctcgact tttcagcagt gtcctttctt 2160
gatgtttctt cagtgagggg ccttaaatcg attttgcaag aatttatcag gatcaaggta 2220

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gaaaattatt ttgttcatac atatttttgt agcactgaca gatttccatc ctagtcacta 2760
ccttcatgca taggtttagc agtatagtgg cgccactgtt ttgaatctca taatttatac 2820
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<210> 73
<211> 764
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1808144CD1

<400> 73
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20 25 30
His His Lys Thr Phe Leu Asp His Leu Lys Val Cys Cys Ser Cys
35 40 45
Ser Pro Gln Lys Ala Lys Arg Ile Val Leu Ser Leu Phe Pro Ile
50 55 60
Ala Ser Trp Leu Pro Ala Tyr Arg Leu Lys Glu Trp Leu Leu Ser
65 70 75
Asp Ile Val Ser Gly Ile Ser Thr Gly Ile Val Ala Val Leu Gln
80 85 90
Gly Leu Ala Phe Ala Leu Leu Val Asp Ile Pro Pro Val Tyr Gly
95 100 105
Leu Tyr Ala Ser Phe Phe Pro Ala Ile Ile Tyr Leu Phe Phe Gly
110 115 120
Thr Ser Arg His Ile Ser Val Gly Pro Phe Pro Ile Leu Ser Met
125 130 135
Met Val Gly Leu Ala Val Ser Gly Ala Val Ser Lys Ala Val Pro
140 145 150
Asp Arg Asn Ala Thr Thr Leu Gly Leu Pro Asn Asn Ser Asn Asn
155 160 165
Ser Ser Leu Leu Asp Asp Glu Arg Val Arg Val Ala Ala Ala Ala
170 175 180
Ser Val Thr Val Leu Ser Gly Ile Ile Gln Leu Ala Phe Gly Ile
185 190 195
Leu Arg Ile Gly Phe Val Val Ile Tyr Leu Ser Glu Ser Leu Ile
200 205 210
Ser Gly Phe Thr Thr Ala Ala Ala Val His Val Leu Val Ser Gln
215 220 225
Leu Lys Phe Ile Phe Gln Leu Thr Val Pro Ser His Thr Asp Pro
230 235 240
Val Ser Ile Phe Lys Val Leu Tyr Ser Val Phe Ser Gln Ile Glu
245 250 255
Lys Thr Asn Ile Ala Asp Leu Val Thr Ala Leu Ile Val Leu Leu
260 265 270
Val Val Ser Ile Val Lys Glu Ile Asn Gln Arg Phe Lys Asp Lys
275 280 285
Leu Pro Val Pro Ile Pro Ile Glu Phe Ile Met Thr Val Ile Ala
290 295 300
Ala Gly Val Ser Tyr Gly Cys Asp Phe Lys Asn Arg Phe Lys Val
305 310 315
Ala Val Val Gly Asp Met Asn Pro Gly Phe Gln Pro Pro Ile Thr
320 325 330

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Pro Asp Val Glu Thr Phe Gln Asn Thr Val Gly Asp Cys Phe Gly
                335                 340                 345
Ile Ala Met Val Ala Phe Ala Val Ala Phe Ser Val Ala Ser Val
                350                 355                 360
Tyr Ser Leu Lys Tyr Asp Tyr Pro Leu Asp Gly Asn Gln Glu Leu
                365                 370                 375
Ile Ala Leu Gly Leu Gly Asn Ile Val Cys Gly Val Phe Arg Gly
                380                 385                 390
Phe Ala Gly Ser Thr Ala Leu Ser Arg Ser Ala Val Gln Glu Ser
                395                 400                 405
Thr Gly Gly Lys Thr Gln Ile Ala Gly Leu Ile Gly Ala Ile Ile
                410                 415                 420
Val Leu Ile Val Val Leu Ala Ile Gly Phe Leu Leu Ala Pro Leu
                425                 430                 435
Gln Lys Ser Val Leu Ala Ala Leu Ala Leu Gly Asn Leu Lys Gly
                440                 445                 450
Met Leu Met Gln Phe Ala Glu Ile Gly Arg Leu Trp Arg Lys Asp
                455                 460                 465
Lys Tyr Asp Cys Leu Ile Trp Ile Met Thr Phe Ile Phe Thr Ile
                470                 475                 480
Val Leu Gly Leu Gly Leu Gly Leu Ala Ala Ser Val Ala Phe Gln
                485                 490                 495
Leu Leu Thr Ile Val Phe Arg Thr Gln Phe Pro Lys Cys Ser Thr
                500                 505                 510
Leu Ala Asn Ile Gly Arg Thr Asn Ile Tyr Lys Asn Lys Lys Asp
                515                 520                 525
Tyr Tyr Asp Met Tyr Glu Pro Glu Gly Val Lys Ile Phe Arg Cys
                530                 535                 540
Pro Ser Pro Ile Tyr Phe Ala Asn Ile Gly Phe Phe Arg Arg Lys
                545                 550                 555
Leu Ile Asp Ala Val Gly Phe Ser Pro Leu Arg Ile Leu Arg Lys
                560                 565                 570
Arg Asn Lys Ala Leu Arg Lys Ile Arg Lys Leu Gln Lys Gln Gly
                575                 580                 585
Leu Leu Gln Val Thr Pro Lys Gly Phe Ile Cys Thr Val Asp Thr
                590                 595                 600
Ile Lys Asp Ser Asp Glu Glu Leu Asp Asn Asn Gln Ile Glu Val
                605                 610                 615
Leu Asp Gln Pro Ile Asn Thr Thr Asp Leu Pro Phe His Ile Asp
                620                 625                 630
Trp Asn Asp Asp Leu Pro Leu Asn Ile Glu Val Pro Lys Ile Ser
                635                 640                 645
Leu His Ser Leu Ile Leu Asp Phe Ser Ala Val Ser Phe Leu Asp
                650                 655                 660
Val Ser Ser Val Arg Gly Leu Lys Ser Ile Leu Gln Glu Phe Ile
                665                 670                 675
Arg Ile Lys Val Asp Val Tyr Ile Val Gly Thr Asp Asp Asp Phe
                680                 685                 690
Ile Glu Lys Leu Asn Arg Tyr Glu Phe Phe Asp Gly Glu Val Lys
                695                 700                 705
Ser Ser Ile Phe Phe Leu Thr Ile His Asp Ala Val Leu His Ile
                710                 715                 720
Leu Met Lys Lys Asp Tyr Ser Thr Ser Lys Phe Asn Pro Ser Gln
                725                 730                 735
Glu Lys Asp Gly Lys Ile Asp Phe Thr Ile Asn Thr Asn Gly Gly
                740                 745                 750
Leu Arg Asn Arg Val Tyr Glu Val Pro Val Glu Thr Lys Phe
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<210> 74
<211> 3503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<223> Incyte ID No: 201356.1

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aattccagcc aaagattctg gaaaatccct cagaaggagg gataacagga tttgaccttt 180
accagcgatt tctgtccata tgtggatgta aacagttctg gaacgttatg catgcagtta 240
gcgaatcctt gaattatgtt ctggtttgta cttgtcccat ccatccaaac aagagattct 300
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aggtgcagtg gctcatgcct gtaatcccag cacgttggga ggccgaggcg ggtggatcac 540
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atacaaagaa ttagcggggc atggtggcac gcgcctgtag tcccagctac tcaggaggct 660
gaggcaggag aattacttga gcccgggagg cggaggttgc agtaagcaga gattgtgcca 720
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gttggagtgt gccagtgcac aggtagacta aggaaaacat tatagaggag tgaagagaac 1080
agaccattga aaagactatt atctgaccag cggaggcaga aaagagagga acccagttga 1140
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tacctcccag agcaaggtat ctttctagag caaatttctc tttctagaag gggagggtca 1260
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<213> Homo sapiens

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<223> Incyte ID No: 1100412.5

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<213> Homo sapiens

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35 40 45
Lys Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile
50 55 60
Ile Asn Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp
65 70 75
Asn Arg Ser Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg
80 85 90
Leu Phe Gln Phe His Phe His Trp Gly Ser Thr Asn Glu His Gly
95 100 105

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Ala Ser Lys Ala Asp Gly Leu Ala Val Ile Gly Val Leu Met Lys
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Val Gly Glu Ala Asn Pro Lys Leu Gln Lys Val Leu Asp Ala Leu
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Gln Ala Ile Lys Thr Lys Gly Lys Arg Ala Pro Phe Thr Asn Phe
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Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu Asp Phe Trp Thr Tyr
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Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu Ser Val Thr Trp
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Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn Ala Val
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Thr Val Arg Ala Ser Phe
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<210> 81
<211> 1317
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 611082CB1

<400> 81

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<210> 82
<211> 267
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 611082CD1

<400> 82

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             35                  40                  45
Ala Gln Arg Ala Gln Pro Tyr Gly Ile Thr Ser Pro Gly Ile Phe
             50                  55                  60
Ala Ser Ser Gln Pro Gly Gln Gly Asn Ile Gln Met Ile Asn Pro
             65                  70                  75
Ser Val Gly Thr Ala Val Met Asn Phe Lys Glu Glu Ala Lys Ala
             80                  85                  90
Leu Gly Val Ile Gln Ile Met Val Gly Leu Met His Ile Gly Phe
             95                 100                 105
Gly Ile Val Leu Cys Leu Ile Ser Phe Ser Phe Arg Glu Val Leu
            110                 115                 120
Gly Phe Ala Ser Thr Ala Val Ile Gly Gly Tyr Pro Phe Trp Gly
            125                 130                 135
Gly Leu Ser Phe Ile Ile Ser Gly Ser Leu Ser Val Ser Ala Ser
            140                 145                 150
Lys Glu Leu Ser Arg Cys Leu Val Lys Gly Ser Leu Gly Met Asn
            155                 160                 165
Ile Val Ser Ser Ile Leu Ala Phe Ile Gly Val Ile Leu Leu Leu
            170                 175                 180
Val Asp Met Cys Ile Asn Gly Val Ala Gly Gln Asp Tyr Trp Ala
            185                 190                 195
Val Leu Ser Gly Lys Gly Ile Ser Ala Thr Leu Met Ile Phe Ser
            200                 205                 210
Leu Leu Glu Phe Phe Val Ala Cys Ala Thr Ala His Phe Ala Asn
            215                 220                 225
Gln Ala Asn Thr Thr Thr Asn Met Ser Val Leu Val Ile Pro Asn
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<210> 83
<211> 1889
<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 232, 243-244
<223> a, t, c, g, or other

<400> 83

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<210> 84
<211> 3591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1092257.2

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gtatacaaag gaacttttta aaaaagacgc ttccaagtta tatttaatcc aaagaagaag 360
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<210> 85
<211> 3115
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1102315.3

<220>
<221> unsure
<222> 2713, 2719, 3094
<223> a, t, c, g, or other

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<210> 86
<211> 1571
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1543330CB1

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<210> 87
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<212> PRT
<213> Homo sapiens

<220>
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<400> 87

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             35                  40                  45
Glu Ala Arg Lys Lys Ala Leu Lys Leu Gly Ala Lys Lys Val Phe
             50                  55                  60
Ile Glu Asp Val Ser Arg Glu Phe Val Glu Glu Phe Ile Trp Pro
             65                  70                  75
Ala Ile Gln Ser Ser Ala Leu Tyr Glu Asp Arg Tyr Leu Leu Gly
             80                  85                  90
Thr Ser Leu Ala Arg Pro Cys Ile Ala Arg Lys Gln Val Glu Ile
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            110                 115                 120
Lys Gly Asn Asp Gln Val Arg Phe Glu Leu Ser Cys Tyr Ser Leu
            125                 130                 135
Ala Pro Gln Ile Lys Val Ile Ala Pro Trp Arg Met Pro Glu Phe
            140                 145                 150
Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu Tyr Ala Lys
            155                 160                 165
Gln His Gly Ile Pro Ile Pro Val Thr Pro Lys Asn Pro Trp Ser
            170                 175                 180
Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile Leu
            185                 190                 195
Glu Asn Pro Lys Asn Gln Ala Pro Pro Gly Leu Tyr Thr Lys Thr
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Gln Asp Pro Ala Lys Ala Pro Asn Thr Pro Asp Ile Leu Glu Ile
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Glu Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp
            230                 235                 240
Gly Thr Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn
            245                 250                 255
Glu Val Ala Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu
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Asn Arg Phe Ile Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro
            275                 280                 285
Ala Gly Thr Ile Leu Tyr His Ala His Leu Asp Ile Glu Ala Phe
            290                 295                 300
Thr Met Asp Arg Glu Val Arg Lys Ile Lys Gln Gly Leu Gly Leu
            305                 310                 315
Lys Phe Ala Glu Leu Val Tyr Thr Gly Phe Trp His Ser Pro Glu
            320                 325                 330
Cys Glu Phe Val Arg His Cys Ile Ala Lys Ser Gln Glu Arg Val
            335                 340                 345
Glu Gly Lys Val Gln Val Ser Val Leu Lys Gly Gln Val Tyr Ile
            350                 355                 360
Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr Asn Glu Glu Leu Val
            365                 370                 375
Ser Met Asn Val Gln Gly Asp Tyr Glu Pro Thr Asp Ala Thr Gly
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cctgttttta aaacactttg agctaagaat ttttcaccca attatcacac atgattagaa 240
aacaagatgc ttaaagtgaa aaaagacacc cccaccttta ccctacttga tatccaggtc 300
cttttcctcc aagaatattt ctagctgctt ctggttttgc tagtttattt caaaaattac 360
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agaaatttaa ataaagaatt ttatttgttt at 3152

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<211> 1239
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1281620CB1

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cacgcctgtc tctctttcct ggttcccacc cgtgccaggt gacacgcaga gctgaagcca 180
tggttcatca ggtgctctac cgggcgctgg tctccaccaa gtggctggcg gagtccatca 240
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<211> 297
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1281620CD1

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20 25 30
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35 40 45
Lys Glu Tyr Leu Glu Arg His Val Pro Gly Ala Ser Phe Phe Asp
50 55 60
Ile Glu Glu Cys Arg Asp Thr Ala Ser Pro Tyr Glu Met Met Leu
65 70 75
Pro Ser Glu Ala Gly Phe Ala Glu Tyr Val Gly Arg Leu Gly Ile
80 85 90
Ser Asn His Thr His Val Val Val Tyr Asp Gly Glu His Leu Gly
95 100 105
Ser Phe Tyr Ala Pro Arg Val Trp Trp Met Phe Arg Val Phe Gly
110 115 120
His Arg Thr Val Ser Val Leu Asn Gly Gly Phe Arg Asn Trp Leu
125 130 135
Lys Glu Gly His Pro Val Thr Ser Glu Pro Ser Arg Pro Glu Pro
140 145 150
Ala Val Phe Lys Ala Thr Leu Asp Arg Ser Leu Leu Lys Thr Tyr
155 160 165

Glu Gln Val Leu Glu Asn Leu Glu Ser Lys Arg Phe Gln Leu Val
170 175 180
Asp Ser Arg Ser Gln Gly Arg Phe Leu Gly Thr Glu Pro Glu Pro
185 190 195
Asp Ala Val Gly Leu Asp Ser Gly His Ile Arg Gly Ala Val Asn
200 205 210
Met Pro Phe Met Asp Phe Leu Thr Glu Asp Gly Phe Glu Lys Gly
215 220 225
Pro Glu Glu Leu Arg Ala Leu Phe Gln Thr Lys Lys Val Asp Leu
230 235 240
Ser Gln Pro Leu Ile Ala Thr Cys Arg Lys Gly Val Thr Ala Cys
245 250 255
His Val Ala Leu Ala Ala Tyr Leu Cys Gly Lys Pro Asp Val Ala
260 265 270
Val Tyr Asp Gly Ser Trp Ser Glu Trp Phe Arg Arg Ala Pro Pro
275 280 285
Glu Ser Arg Val Ser Gln Gly Lys Ser Glu Lys Ala
290 295

<210> 91
<211> 1860
<212> DNA
<213> Homo sapiens

<220>
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ctagccgccg actcacacaa ggcaggtggg tgaggaaatc cagagttgcc atggagaaaa 240
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cagtcaaacc tggagccaaa aaggacacaa aggactctcg acccaaactg ccccagaccc 360
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<210> 92
<211> 1711
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1635966CB1

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<210> 93
<211> 300
<212> PRT
<213> Homo sapiens

<220>
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Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly
35 40 45
His Gly Ile Val Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys
50 55 60
Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu
65 70 75
Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe
80 85 90
Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys
95 100 105
Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn
110 115 120
Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro
125 130 135
Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp
140 145 150
Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly

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                155                 160                 165
His Ile Val Thr Val Ala Ser Ala Ala Gly His Val Ser Val Pro
                170                 175                 180
Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala Val Gly Phe
                185                 190                 195
His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile Thr Gly
                200                 205                 210
Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly Phe
                215                 220                 225
Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu
                230                 235                 240
Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys
                245                 250                 255
Met Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu
                260                 265                 270
Arg Ile Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile
                275                 280                 285
Ser Val Lys Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
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<210> 94
<211> 2361
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054053CB1

<400> 94

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tcatgccctt ctccattgaa tgtaatggaa ccagtcactg aactgatgca ggagcagtca 540
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aactttgttt ttatgaaaaa aaaggaaaat ggtttcccat ttggttttat atgtgttaaa 2040
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<210> 95
<211> 247
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054053CD1

<400> 95
Met Glu Leu Gln Asp Leu Glu Leu Gln Leu Glu Glu Arg Leu Leu
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Gly Leu Glu Glu Gln Leu Arg Ala Val Arg Met Pro Ser Pro Phe
20 25 30
Arg Ser Ser Ala Leu Met Gly Met Cys Gly Ser Arg Ser Ala Asp
35 40 45
Asn Leu Ser Cys Pro Ser Pro Leu Asn Val Met Glu Pro Val Thr
50 55 60
Glu Leu Met Gln Glu Gln Ser Tyr Leu Lys Ser Glu Leu Gly Leu
65 70 75
Gly Leu Gly Glu Met Gly Phe Glu Ile Pro Pro Gly Glu Ser Ser
80 85 90
Glu Ser Val Phe Ser Gln Ala Thr Ser Glu Ser Ser Ser Val Cys
95 100 105
Ser Gly Pro Ser His Ala Asn Arg Arg Thr Gly Val Pro Ser Thr
110 115 120
Ala Ser Val Gly Lys Ser Lys Thr Pro Leu Val Ala Arg Lys Lys
125 130 135
Val Phe Arg Ala Ser Val Ala Leu Thr Pro Thr Ala Pro Ser Arg
140 145 150
Thr Gly Ser Val Gln Thr Pro Pro Asp Leu Glu Ser Ser Glu Glu
155 160 165
Val Asp Ala Ala Glu Gly Ala Pro Glu Val Val Gly Pro Lys Ser
170 175 180
Glu Val Glu Glu Gly His Gly Lys Leu Pro Ser Met Pro Ala Ala
185 190 195
Glu Glu Met His Lys Asn Val Glu Gln Asp Glu Leu Gln Gln Val
200 205 210
Ile Arg Glu Ile Lys Glu Ser Ile Val Gly Glu Ile Arg Arg Glu
215 220 225
Ile Val Ser Gly Leu Leu Ala Ala Val Ser Ser Ser Lys Ala Ser
230 235 240
Asn Ser Lys Gln Asp Tyr His
245

<210> 96
<211> 3098
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 096954.5

<400> 96
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gctgggggga gggggcacac ctgcctcccc tgggtggggc ctctgttccc tggcaacctg 180
gcgggcaggg cggagctggg aggcctctgt gcccatcgag gagtcagagt ggaggctgca 240
gactgtggag ccgggagccg gcagtaagcc cagaggtctc caccccacgg gaggaaggct 300

gaggccaaga ccccggaaga gatggaccgc gtgaccagat accccatcct gggcatccct 360
caggcacacc gtggcaccgg cctggtgctg gatggagaca ccagctacac ataccatctg 420
gtgtgcatgg gccccgaggc cagcggctgg ggccaggatg agccgcagac atggcccact 480
gaccacaggg cccagcaggg cgtgcagagg cagggggtgt cctacagcgt gcatgcctac 540
actggccagc cgtccccacg gggctccac tcggagaaca gggaggatga gggttggcag 600
gtttaccgcc tgggcgccag ggatgcccac cagggacgtc caacatgggc actccgccca 660
gaggacgggg aggacaagga gatgaagacc taccgcctgg atgctgggga cgctgacccc 720
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gtggtcaggg aagagaacaa ggtgcgtgct gtgcccacct gggccagtgt ccaagttgtg 1140
gatgaccctg gctccttggc ctcagtggag tccccgggga cccccaagga gacgcccatc 1200
gagcgggaga tccgtctggc tcaggagcgt gaggcagacc tgcgagagca gaggggctt 1260
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tcccagtgct ggggtccct gtgcagccct caaacccttc accttggtgc acccagccac 2940
acctggtgga cacaaagctc tcacatcgat aggatcccat gaggatggtc cccttcacct 3000
gggagaaaag tgacccagtt taggagctgg agggggtct ttgtccccca cccccaaact 3060
gccctgaaat aaacctggag tgagctgcca gaaaaaaa 3098

<210> 97
<211> 860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1422432CB1

<220>
<221> unsure
<222> 205
<223> a, t, c, g, or other

<400> 97
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caaagacaac ccccggcaaa aactcaaaat gaaactccct ctcgcagagc acaattccaa 120
ttcgctctaa aaacattaca agttagttca tgtcatgcca gatagctgaa ggcagctcac 180

aagttcttaa ggccaggaat gccangtgtc tgctatgcac agctggccct ggccctgagc 240
ctgaatgaca gcaaaggtga cgcagatgtg ggtgccctgc tcctgcccag cagcagtgct 300
tggtggaggc tgaggccctg cacaggcacc ctcactgctg accttgagcc tctctctcct 360
ctcaagaggc tgccagtggg acattttctc ggccctgcca gcccccagga ggaaggtggg 420
tctgaatcta gcaccatgac ggaactagag acagccatgg gcatgatcat agacgtcttt 480
tcccgatatt cgggcagcga gggcagcacg cagaccctga ccaaggggga gctcaaggtg 540
ctgatggaga aggagctacc aggcttcctg cagagtggaa aagacaagga tgccgtggat 600
aaattgctca aggacctgga cgccaatgga gatgcccagg tggacttcag tgagttcatc 660
gtgttcgtgg ctgcaatcac gtctgcctgt cacaagtact ttgagaaggc aggactcaaa 720
tgatgccctg gagatgtcac agattcctgg cagagccatg gtcccaggct tcccaaaagt 780
gtttgttggc aattattccc ctaggctgag cctgctcatg tacctctgat taataaatgc 840
ttatgaaatg aaaaaaaaaa 860

<210> 98
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1422432CD1

<400> 98
Met Thr Glu Leu Glu Thr Ala Met Gly Met Ile Ile Asp Val Phe
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Ser Arg Tyr Ser Gly Ser Glu Gly Ser Thr Gln Thr Leu Thr Lys
20 25 30
Gly Glu Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu
35 40 45
Gln Ser Gly Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp
50 55 60
Leu Asp Ala Asn Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile
65 70 75
Val Phe Val Ala Ala Ile Thr Ser Ala Cys His Lys Tyr Phe Glu
80 85 90
Lys Ala Gly Leu Lys
95

<210> 99
<211> 1498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 409895.2

<400> 99
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agggctgggc tgggctggcc ttctggccct atctgctccg tgcccaaccc agcgccccgc 180
acagtcggag ctttgtaaat acgaggtgac tgtctgccta caaactttgt aaacatcact 240
tgaaatggcc gcagggtatt gcgacatggc cataccacta tttgtttgct attgaatttg 300
tacttccctg ccttactttt gctattgcaa accatgctgt cactaaggtc ttcatgcaca 360
cagttgtgtc ttggtcagat gatatgtttc taccaatttt aattgtgttt ctttccacct 420
gggacacaca gctctctggg ccccagggct gggtcatcag cacaccctgc tgctgctgtt 480
cagatctgca tcctggtccc gcttggtccc acagtgagaa cgctttgcta tcacatgggc 540
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agcagagagg aagaacaggg ctcagggtgc ttgctccatg ctcgctccac acctggggct 660
caaccctggc tttccccggc tccctgtgtg acttcagggc aggtcccttg ggccctctgg 720
gccttatcat cttcatctgt aacagggcga tgcctctgcc gtgtctggtg gtgttgagga 780
gttcctgttt gtgtaagcag ctagttcagt gccagcacga gatgggaggc ccatgaagtt 840
agcagtgcac aaaaaataga gcaaagactg gatgcatttc ctgagaacaa ccatcactgt 900
aaagcacttt acaaatccaa agacaacccc cggcaaaaac tcaaaatgaa actccctctc 960
gcagagcaca attccaattc gctctaaaaa cattacaagt tagttcatgt catgccagat 1020
agctgaaggc agctcacaag ttcttaaggc caggaatgcc atgtgtctgc tatgcacagc 1080

tggccctggc cctgagcctg aatgacagca aaggtgacgc agatgtgggt gccctgctcc 1140
tgcccagcag cagtgcttgg tggaggctga ggccctgcac aggcaccctc actgctgacc 1200
ttgagcctct ctctcctcta gagtggaaaa gacaaggatg ccgtggataa attgctcaag 1260
gacctggacg ccaatggaga tgcccaggtg gacttcagtg agttcatcgt gttcgtggct 1320
gcaatcacgt ctgcctgtca caagtacttt gagaaggcag gactcaaatg atgccctgga 1380
gatgtcacag attcctggca gagccatggt cccaggcttc ccaaaagtgt ttgttggcaa 1440
ttattcccct aggctgagcc tgctcatgta cctctgatta ataaatgctt atgaaatg 1498

<210> 100
<211> 1138
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4874364CB1

<400> 100
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ctggtattaa aatgctttcc ccaaaagata ttctgcgaaa agatctgaag ttggtccatg 180
gttatcccat gacctgtgct tttgcgagca actgggaaaa aattgaacag ttccatagca 240
gaccagatga cattgtgata gccacttatc ctaaatcagg tactacttgg gttagtgaaa 300
ttatagacat gattctaaat gatggagata ttgaaaaatg taagcgaggt tttattactg 360
aaaaagttcc aatgttggaa atgactctcc ctggattaag aacatcaggt atagaacaat 420
tggagaagaa tccatcaccc cggattgtga aaacacatct accgactgat cttcttccta 480
aatctttctg ggaaaacaat tgcaagatga tttatctggc tcgtaatgcc aaggatgttt 540
cagtctcata ttaccatttt gacttaatga ataatttaca gccttttcct ggtacctggg 600
aagaatatct ggagaaattc ttaactggaa aagtggccta tggttcctgg tttactcatg 660
ttaaaaactg gtggaagaaa aaggaaggac acccaatact ttttttgtac tatgaagata 720
tgaaagagaa tccaaaggag gaaatcaaga agatcattag atttctagag aagaacctga 780
atgatgagat cttggatagg atcatccatc acacctcatt tgaagtgatg aaggacaatc 840
ctttggtaaa ttatacacat ctaccaacta cagtgatgga tcatagcaaa tccccttta 900
tgcgtaaagg gacggctggt gactggaaga attacttcac cgtggcccaa aatgagaaat 960
ttgatgctat ttatgagaca gaaatgtcca aaactgcact tcaattccgc acagagattt 1020
aaagtgtcta aatcacaaat ctgagaaata gagattgtct gtagttgatt gaaacgaggg 1080
cagttatgaa ttgatttggg caatcaaatg aatttataaa ggagaataat atgccttt 1138

<210> 101
<211> 296
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4874364CD1

<400> 101
Met Leu Ser Pro Lys Asp Ile Leu Arg Lys Asp Leu Lys Leu Val
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His Gly Tyr Pro Met Thr Cys Ala Phe Ala Ser Asn Trp Glu Lys
20 25 30
Ile Glu Gln Phe His Ser Arg Pro Asp Asp Ile Val Ile Ala Thr
35 40 45
Tyr Pro Lys Ser Gly Thr Thr Trp Val Ser Glu Ile Ile Asp Met
50 55 60
Ile Leu Asn Asp Gly Asp Ile Glu Lys Cys Lys Arg Gly Phe Ile
65 70 75
Thr Glu Lys Val Pro Met Leu Glu Met Thr Leu Pro Gly Leu Arg
80 85 90
Thr Ser Gly Ile Glu Gln Leu Glu Lys Asn Pro Ser Pro Arg Ile
95 100 105
Val Lys Thr His Leu Pro Thr Asp Leu Leu Pro Lys Ser Phe Trp
110 115 120
Glu Asn Asn Cys Lys Met Ile Tyr Leu Ala Arg Asn Ala Lys Asp
125 130 135

Val Ser Val Ser Tyr Tyr His Phe Asp Leu Met Asn Asn Leu Gln
                140   145   150
Pro Phe Pro Gly Thr Trp Glu Glu Tyr Leu Glu Lys Phe Leu Thr
                155   160   165
Gly Lys Val Ala Tyr Gly Ser Trp Phe Thr His Val Lys Asn Trp
                170   175   180
Trp Lys Lys Lys Glu Gly His Pro Ile Leu Phe Leu Tyr Tyr Glu
                185   190   195
Asp Met Lys Glu Asn Pro Lys Glu Glu Ile Lys Lys Ile Ile Arg
                200   205   210
Phe Leu Glu Lys Asn Leu Asn Asp Glu Ile Leu Asp Arg Ile Ile
                215   220   225
His His Thr Ser Phe Glu Val Met Lys Asp Asn Pro Leu Val Asn
                230   235   240
Tyr Thr His Leu Pro Thr Thr Val Met Asp His Ser Lys Ser Pro
                245   250   255
Phe Met Arg Lys Gly Thr Ala Gly Asp Trp Lys Asn Tyr Phe Thr
                260   265   270
Val Ala Gln Asn Glu Lys Phe Asp Ala Ile Tyr Glu Thr Glu Met
                275   280   285
Ser Lys Thr Ala Leu Gln Phe Arg Thr Glu Ile
                290   295

<210> 102
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 239568.4

<220>
<221> unsure
<222> 495
<223> a, t, c, g, or other

<400> 102
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aaaaagaaaa ctcagtagaa gataatggca agtccagact ggggatatga tgacaaaaat 120
ggtcctgaac aatggagcaa gctgtatccc attgccaatg gaaataacca gtcccctgtt 180
gatattaaaa ccagtgaaac caaacatgac acctctctga aacctattag tgtctcctac 240
aacccagcca cagccaaaga aattatcaat gtggggcatt ccttccatgt aaatttttgag 300
gacaacgata accgatcagt gctgaaaggt ggtcctttct ctgacagcta caggctcttt 360
cagttccatt ttcactgggg cagtacaaat gagcatggtt cagaacatac agtggatgga 420
gtcaaatatt ctgccgagct tcacgtagct cactggaatt ctgcaaagta ctccagcctt 480
gctgaagctg cctcnaaggc tgatggt 507

<210> 103
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255041.1

<220>
<221> unsure
<222> 336, 458
<223> a, t, c, g, or other

<400> 103
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caagatgttg cctgtttcct ttctgaaagt ttgctaaaac aggaaagaag gagaaaaggg 120
attagttaca taaaaggctt gaagctggaa tgaccaaaag atagaattcc ttcagttaat 180

tccagcatga agaggttgat acagaggatt tccttcctcc tgtgacaaaa catattttta 240
taacttacac tgttaggtca aaatttattt tccagagatt tagtacctat ttaaaagtta 300
gaaatattct tagtcaaata cttaaaaaca aggaanaata aaaaataatg taaaaccata 360
tgggtttatg tgaaatacat tattctattc acaagtggca catgcacaaa aattactgag 420
ctgtgtttca cactttatac attgacccaa tattaagnca tccgttcaca atattaatac 480
cattttgcaa atac 494

<210> 104
<211> 2147
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2555628CB1

<400> 104
gtgtttagga gaaagtaggg gctgtgggtg tcgggagccg gctgacgggt ggacaagggg 60
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gagagagaga gagaagggcg cctcagaggt gactttcagc ctgcgagcct tcttcccggg 180
gcgccataaa cgcccccaat ttcccagctg ctaaaggaag aggaagatct tagcaaagca 240
atgtctcaag atggtgcttc tcagttccaa gaagtcattc ggcaagagct agaattatct 300
gtgaagaagg aactagaaaa aatactcacc acagcatcat cacatgaatt tgagcacacc 360
aaaaaagacc tggatggatt tcggaagcta tttcatagat ttttgcaaga aaaggggcct 420
tctgtggatt ggggaaaaat ccagagaccc cctgaagatt cgattcaacc ctatgaaaag 480
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gtgaggaatg agaatacctt tctggatctg actgttcagc aaattgaaca tttgaataaa 660
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gcagtattag agaacaagat tgtgtctgga aaccttcgca tcttggacca ctgaaatgaa 1740
aaatactgtg gacacttaaa taatgggcta gtttcttaca atgaaatgtt ctctaggatt 1800
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agttttctgc agtatgcttt tagtctaaga aaagcacaga tggagcaata ctttccttct 1920
ttgaagagaa tcccaaaagt tagttcatct taaagtgcaa tattgtttaa tcttaaaact 1980
gggcaacttt ggaagaactt ttaacagaag cctcaatgat gatcactttg aattgcttgt 2040
gatttcaaaa ataaagcagt gaagcaatac ttgtgtacac tggtacttta taatgctaac 2100
tataaactgg tttattgttg ttagacagtt actatattag ttggaag 2147

<210> 105
<211> 497
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2555628CD1

<400> 105
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Glu Leu Glu Leu Ser Val Lys Lys Glu Leu Glu Lys Ile Leu Thr
20 25 30
Thr Ala Ser Ser His Glu Phe Glu His Thr Lys Lys Asp Leu Asp
35 40 45
Gly Phe Arg Lys Leu Phe His Arg Phe Leu Gln Glu Lys Gly Pro
50 55 60
Ser Val Asp Trp Gly Lys Ile Gln Arg Pro Pro Glu Asp Ser Ile
65 70 75
Gln Pro Tyr Glu Lys Ile Lys Ala Arg Gly Leu Pro Asp Asn Ile
80 85 90
Ser Ser Val Leu Asn Lys Leu Val Val Val Lys Leu Asn Gly Gly
95 100 105
Leu Gly Thr Ser Met Gly Cys Lys Gly Pro Lys Ser Leu Ile Gly
110 115 120
Val Arg Asn Glu Asn Thr Phe Leu Asp Leu Thr Val Gln Gln Ile
125 130 135
Glu His Leu Asn Lys Thr Tyr Asn Thr Asp Val Pro Leu Val Leu
140 145 150
Met Asn Ser Phe Asn Thr Asp Glu Asp Thr Lys Lys Ile Leu Gln
155 160 165
Lys Tyr Asn His Cys Arg Val Lys Ile Tyr Thr Phe Asn Gln Ser
170 175 180
Arg Tyr Pro Arg Ile Asn Lys Glu Ser Leu Leu Pro Val Ala Lys
185 190 195
Asp Val Ser Tyr Ser Gly Glu Asn Thr Glu Ala Trp Tyr Pro Pro
200 205 210
Gly His Gly Asp Ile Tyr Ala Ser Phe Tyr Asn Ser Gly Leu Leu
215 220 225
Asp Thr Phe Ile Gly Glu Gly Lys Glu Tyr Ile Phe Val Ser Asn
230 235 240
Ile Asp Asn Leu Gly Ala Thr Val Asp Leu Tyr Ile Leu Asn His
245 250 255
Leu Met Asn Pro Pro Asn Gly Lys Arg Cys Glu Phe Val Met Glu
260 265 270
Val Thr Asn Lys Thr Arg Ala Asp Val Lys Gly Gly Thr Leu Thr
275 280 285
Gln Tyr Glu Gly Lys Leu Arg Leu Val Glu Ile Ala Gln Val Pro
290 295 300
Lys Ala His Val Asp Glu Phe Lys Ser Val Ser Lys Phe Lys Ile
305 310 315
Phe Asn Thr Asn Asn Leu Trp Ile Ser Leu Ala Ala Val Lys Arg
320 325 330
Leu Gln Glu Gln Asn Ala Ile Asp Met Glu Ile Ile Val Asn Ala
335 340 345
Lys Thr Leu Asp Gly Gly Leu Asn Val Ile Gln Leu Glu Thr Ala
350 355 360
Val Gly Ala Ala Ile Lys Ser Phe Glu Asn Ser Leu Gly Ile Asn
365 370 375
Val Pro Arg Ser Arg Phe Leu Pro Val Lys Thr Thr Ser Asp Leu
380 385 390
Leu Leu Val Met Ser Asn Leu Tyr Ser Leu Asn Ala Gly Ser Leu
395 400 405
Thr Met Ser Glu Lys Arg Glu Phe Pro Thr Val Pro Leu Val Lys
410 415 420
Leu Gly Ser Ser Phe Thr Lys Val Gln Asp Tyr Leu Arg Arg Phe
425 430 435
Glu Ser Ile Pro Asp Met Leu Glu Leu Asp His Leu Thr Val Ser
440 445 450
Gly Asp Val Thr Phe Gly Lys Asn Val Ser Leu Lys Gly Thr Val
455 460 465
Ile Ile Ile Ala Asn His Gly Asp Arg Ile Asp Ile Pro Pro Gly
470 475 480
Ala Val Leu Glu Asn Lys Ile Val Ser Gly Asn Leu Arg Ile Leu
485 490 495
Asp His

<210> 106
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255803.1

<220>
<221> unsure
<222> 136
<223> a, t, c, g, or other

<400> 106
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gcaggacatg gcgtanagct gcatgagtac caggaatgac gaacatcagg ctggccctgg 180
acatcaagat caccatctac aggaagctgc tggagggcga ggagagccag ttggagtctg 240
ggatgcagaa catgagtatc catacgaaga ccaccagcgg ctatgcaggt gatctgagct 300
cggcctatgt gggcctcaca actcgtgacc tcagctatgg cctgggctcc agctttggct 360
ctggcacagg cttcagctcc ttcaggtgca ccagctccac cagggccgtg gttgtgaaga 420
agatcgagac ccgcgatggg aagctggtgt ctgagtcctc tgacttcctg cccaagtgaa 480
caactgtggc agctcctcct agtctgcccc tcccgtggct gccacagact ccaggaggga 540
ggctgctgtg tggggaagca cagacaacag gagacccccc acctgaggct caacccaccc 600
gtgggggagt ttactgtctg gggacccccc ttgcccatgc ttccagctag aaaacaattg 660
tggttttttt ttgggtccaa aataaaacct cagttagttc caccac 706

<210> 107
<211> 1589
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 900341CB1

<400> 107
gatagctgcc tgatccaagg cccagcagct tctgccttcc ggatccccac cgacggacgg 60
aggcagccca cctgcaggac cggggcgctg tcggtccacg tggccgctct ggagcaggtt 120
ggagttggca gcgggatgcg ctgcacggac aggcgcggcg gacagccccg ggggcagcgg 180
cggggtcctg tctgggagag gacagggttg cggcgggcgg aacggtgtct ccttcacttc 240
gccctccagc tgctggagct gcagcccgac cgcgagcgtg ccaagcggct tcagcagcta 300
gcggagcgga tggcggcggc ccccctcagg acaccaccag attcccctct tcccgcggcc 360
tcgccatggc gacccacgga cagacttgcg cgcgtccaat gtgtattcct ccatcatatg 420
ctgaccttgg caaagctgcc agagatattt tcaacaaagg atttggtttt gggttggtga 480
aactggatgt gaaaacaaag tcttgcagtg gcgtggaatt ttcaacgtcc ggttcatcta 540
atacagacac tggtaaagtt actgggacct tggagaccaa atacaagtgg tgtgagtatg 600
gtctgacttt cacagaaaag tggaacactg ataacactct gggaacagaa atcgcaattg 660
aagaccagat ttgtcaaggt ttgaaactga catttgatac taccttctca ccaaacacag 720
gaaagaaaag tggtaaaatc aagtcttctt acaagaggga gtgtataaac cttggttgtg 780
atgttgactt tgattttgct ggacctgcaa tccatggttc agctgtcttt ggttatgagg 840
gctggcttgc tggctaccag atgacctttg acagtgccaa atcaaagctg acaaggaata 900
actttgcagt gggctacagg actggggact tccagctaca cactaatgtc aatgatggga 960
cagaatttgg aggatcaatt tatcagaaag tttgtgaaga tcttgacact tcagtaaacc 1020
ttgcttggac atcaggtacc aactgcactc gttttggcat tgcagctaaa tatcagttgg 1080
atcccactgc ttccatttct gcaaaagtca acaactctag cttaattgga gtaggctata 1140
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ttaatgctgg aggccacaag gttgggctcg ccctggagtt ggaggcttaa tccagctgaa 1260
agaaaccttt gggaatggat atcagaagat ttggccttaa tatatttcca ttgtgaccag 1320
cagcaggctt ttttcccccc agaagatgat caaaacaaag gatgatctca acaagagctg 1380
tattttaagt atttagacag ttctttgtta gctggtttct agttggttat ctagttacca 1440
atgctgcagt cctgcagtca cctatacatt atttaaatgt atttaactgt taaatgcgct 1500
acccaccaat aatgaaatag acctttatga aaactgtgca attgtgtgca tgtttgtttt 1560
tatgttcctt tagaaaacat tgactgttt 1589

<210> 108
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 900341CD1

<400> 108
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1 5 10 15
Pro Ser Tyr Ala Asp Leu Gly Lys Ala Ala Arg Asp Ile Phe Asn
20 25 30
Lys Gly Phe Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys
35 40 45
Ser Cys Ser Gly Val Glu Phe Ser Thr Ser Gly Ser Ser Asn Thr
50 55 60
Asp Thr Gly Lys Val Thr Gly Thr Leu Glu Thr Lys Tyr Lys Trp
65 70 75
Cys Glu Tyr Gly Leu Thr Phe Thr Glu Lys Trp Asn Thr Asp Asn
80 85 90
Thr Leu Gly Thr Glu Ile Ala Ile Glu Asp Gln Ile Cys Gln Gly
95 100 105
Leu Lys Leu Thr Phe Asp Thr Thr Phe Ser Pro Asn Thr Gly Lys
110 115 120
Lys Ser Gly Lys Ile Lys Ser Ser Tyr Lys Arg Glu Cys Ile Asn
125 130 135
Leu Gly Cys Asp Val Asp Phe Asp Phe Ala Gly Pro Ala Ile His
140 145 150
Gly Ser Ala Val Phe Gly Tyr Glu Gly Trp Leu Ala Gly Tyr Gln
155 160 165
Met Thr Phe Asp Ser Ala Lys Ser Lys Leu Thr Arg Asn Asn Phe
170 175 180
Ala Val Gly Tyr Arg Thr Gly Asp Phe Gln Leu His Thr Asn Val
185 190 195
Asn Asp Gly Thr Glu Phe Gly Gly Ser Ile Tyr Gln Lys Val Cys
200 205 210
Glu Asp Leu Asp Thr Ser Val Asn Leu Ala Trp Thr Ser Gly Thr
215 220 225
Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro
230 235 240
Thr Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly
245 250 255
Val Gly Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu
260 265 270
Ser Ala Leu Val Asp Gly Lys Ser Ile Asn Ala Gly Gly His Lys
275 280 285
Val Gly Leu Ala Leu Glu Leu Glu Ala
290

<210> 109
<211> 1870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 273879CB1

<400> 109
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ctcctgccct caggtgatcc atccacctcg gccagtcaaa gtgctgggat tacaggcatg 120
agccattgca cccagccgat actactatat ccccatttta cagatgagca catgggcaaa 180
ttgagggtaa ggcactgacc catgatcata cagctgagaa gtggcaaagg caggatttga 240
acctagaacc tctggctcca cacactagta atctaaacca ctctccctac aatacaacat 300

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acgtggtaaa gatgtgtggt gggcacgcaa tcaacgtagg tcccttcaca gttgctggga 360
gaggcaggaa tttgcagttc ctccgcgttc tcctcctccg ctgcccacct gtcctgggtc 420
attcctgcag cctgccctgc cctgcctggt ctcaccctcc ctctgccaac agaagtctgg 480
gcagggtttt atgggctctg ataaggccct ggcagggccg aagttcatga gcacttcctc 540
tttgcaggag ggcgtagggg aggggaccca ggtgatttgg gtcctggctg gtcaccaggg 600
aagctggcaa gggaagggag actagggtgc gctctaggag aagccgacag cctgagagtc 660
ccagaagagg agccctgtgg accctcccct gccagccact cccttaccct gggtataaga 720
gccaccaccg cctgccatcc gccaccatct cccactcctg cagctcttct cacaggacca 780
gccactagcg cagcctcgag cgatggccta tgtccccgca ccgggctacc agcccaccta 840
caacccgacg ctgccttact accagcccat cccgggcggg ctcaacgtgg gaatgtctgt 900
ttacatccaa ggagtggcca gcgagcacat gaagcggttc ttcgtgaact ttgtggttgg 960
gcaggatccg ggctcagacg tcgccttcca cttcaatccg cggtttgacg gctgggacaa 1020
ggtggtcttc aacacgttgc agggcgggaa gtggggcagc gaggagagga agaggagcat 1080
gcccttcaaa aagggtgccg cctttgagct ggtcttcata gtcctggctg agcactacaa 1140
ggtggtggta aatggaaatc ccttctatga gtacgggcac cggcttcccc tacagatggt 1200
cacccacctg caagtggatg gggatctgca acttcaatca atcaacttca tcggaggcca 1260
gcccctccgg ccccagggac ccccgatgat gccaccttac cctggtcccg gacattgcca 1320
tcaacagctg aacagcctgc ccaccatgga aggacccccа accttcaacc cgcctgtgcc 1380
atatttcggg aggctgcaag gagggctcac agctcgaaga accatcatca tcaagggcta 1440
tgtgcctccc acaggcaaga gctttgctat caacttcaag gtgggctcct caggggacat 1500
agctctgcac attaatcccc gcatgggcaa cggtaccgtg gtccggaaca gccttctgaa 1560
tggctcgtgg ggatccgagg agaagaagat cacccacaac ccatttggtc ccggacagtt 1620
ctttgatctg tccattcgct gtggcttgga tcgcttcaag gtttacgcca atggccagca 1680
cctctttgac tttgcccatc gcctctcggc cttccagagg gtggacacat tggaaatcca 1740
gggtgatgtc accttgtcct atgtccagat ctaatctatt cctggggcca taactcatgg 1800
gaaaacagaa ttatccccta ggactccttt ctaagccccт aataaaatgt ctgagggtga 1860
aaaaaaaaaa                                                       1870
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<210> 110
<211> 323
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 273879CD1

<400> 110

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  1               5                  10                  15
Thr Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly
             20                  25                  30
Met Ser Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg
             35                  40                  45
Phe Phe Val Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val
             50                  55                  60
Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val
             65                  70                  75
Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys
             80                  85                  90
Arg Ser Met Pro Phe Lys Lys Gly Ala Ala Phe Glu Leu Val Phe
             95                 100                 105
Ile Val Leu Ala Glu His Tyr Lys Val Val Val Asn Gly Asn Pro
            110                 115                 120
Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
            125                 130                 135
Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn Phe Ile
            140                 145                 150
Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro Pro
            155                 160                 165
Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro
            170                 175                 180
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe
            185                 190                 195
Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile
            200                 205                 210
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Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe
                215                 220                 225
Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
                230                 235                 240
Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser
                245                 250                 255
Trp Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro
                260                 265                 270
Gly Gln Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe
                275                 280                 285
Lys Val Tyr Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg
                290                 295                 300
Leu Ser Ala Phe Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp
                305                 310                 315
Val Thr Leu Ser Tyr Val Gln Ile
                320
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<210> 111
<211> 1137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 141804.1

<220>
<221> unsure
<222> 1047
<223> a, t, c, g, or other

<400> 111
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atgattttga ccccactgct gagatgttgg tccatgacta tgatgatgaa agaactcttg 120
aagaagagga aatgatggat gagggtaaaa acttcagttt cagaaattga agacttagaa 180
aaggaaggaa ccatgcctct agaagattta ctggcattct atggctatga acctacaatt 240
ccagcagttg caaattccag tgcaaatagt tccccaagtg aactggcaga tgaactacca 300
gacatgacac tagacaaaga ggaaatagca aaagacctgt tgtcaggtga tgacgaggaa 360
actcagtctt ctgcggatga tctgacgcca tctgtgactt cccatgaaac ttctgatttc 420
ttccctaggc ctttacgatc aaatactgca tgtgatggtg ataaggaatc agaggttgaa 480
gatgttgaaa cagacagtgg taattcacct gaagatttga ggaaggaaat aatgattggt 540
ttacaatatc aggcagagat tccccccttat cttggagagt acgatggtaa tgagaaagta 600
tatgaaaacg aagaccagtt actttggtgt cctgatgtgg ttttggagag caaagttaag 660
gaataccttg ttgagacttc attaaggact ggcagtgaaa aaataatgga taggatttct 720
gcaggaacac acacaaggga caatgaacag gcattatatg aacttctcaa gtgtaaccac 780
aatataaagg aagcaatcga aagatactgc tgcaatggaa aggcctctca agaaggaatg 840
actgcatgga cggaagaaga atgccgaagc tttgaacatg cactcatgct ttttggaaaa 900
gattttcatc ttatacagaa gaataaggta aattaggcag attagtacag ataaattact 960
agttacagtg aatgtaagca actaatttat aagtcactta agtaggaaaa aagaacaact 1020
tactaatgtt cccttgccaa tagcatntca gatatcattc taacatgcac taatttgctc 1080
agagatgcca cagcctgctt atggaatggc tgatagtata ttcacatatc ttttcac   1137

<210> 112
<211> 1450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2512879CB1

<400> 112
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gacagaatca acatgagcac agcaggaaaa gtaatcaaat gcaaagcagc tgtgctatgg 120
gagttaaaga aacccttttc cattgaggag gtggaggttg cacctcctaa ggcccatgaa 180
gttcgtatta agatggtggc tgtaggaatc tgtggcacag atgaccacgt ggttagtggt 240

accatggtga ccccacttcc tgtgatttta ggccatgagg cagccggcat cgtggagagt 300
gttggagaag gggtgactac agtcaaacca ggtgataaag tcatcccact cgctattcct 360
cagtgtggaa aatgcagaat ttgtaaaaac ccggagagca actactgctt gaaaaacgat 420
gtaagcaatc ctcaggggac cctgcaggat ggcaccagca ggttcacctg caggaggaag 480
cccatccacc acttccttgg catcagcacc ttctcacagt acacagtggt ggatgaaaat 540
gcagtagcca aaattgatgc agcctcgcct ctagagaaag tctgtctcat tggctgtgga 600
ttttcaactg gttatgggtc tgcagtcaat gttgccaagg tcaccccagg ctctacctgt 660
gctgtgtttg gcctgggagg ggtcggccta tctgctatta tgggctgtaa agcagctggg 720
gcagccagaa tcattgcggt ggacatcaac aaggacaaat ttgcaaaggc caaagagttg 780
ggtgccactg aatgcatcaa ccctcaagac tacaagaaac ccatccagga ggtgctaaag 840
gaaatgactg atggaggtgt ggatttttca tttgaagtca tcggtcggct tgacaccatg 900
atggcttccc tgttatgttg tcatgaggca tgtggcacaa gtgtcatcgt aggggtacct 960
cctgattccc aaaacctctc aatgaaccct atgctgctac tgactggacg tacctggaag 1020
ggagctattc ttggtggctt taaaagtaaa gaatgtgtcc caaaacttgt ggctgatttt 1080
atggctaaga agttttcatt ggatgcatta ataacccatg ttttaccttt tgaaaaaata 1140
aatgaaggat ttgacctgct tcactctggg aaaagtatcc gtaccattct gatgttttga 1200
gacaatacag atgttttccc ttgtggcagt cttcagcctc ctctacccta catgatctgg 1260
agcaacagct gggaaatatc attaattctg ctcatcacag attttatcaa taaattacat 1320
ttgggggctt tccaaagaaa tggaaattga tgtaaaatta tttttcaagc aaatgtttaa 1380
aatccaaatg agaactaaat aaagtgttga acatcagctg gggaattgaa gcctataaac 1440
cttccttcta 1450

<210> 113
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2512879CD1

<400> 113
Met Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala Ala Val Leu
1 5 10 15
Trp Glu Leu Lys Lys Pro Phe Ser Ile Glu Glu Val Glu Val Ala
20 25 30
Pro Pro Lys Ala His Glu Val Arg Ile Lys Met Val Ala Val Gly
35 40 45
Ile Cys Gly Thr Asp Asp His Val Val Ser Gly Thr Met Val Thr
50 55 60
Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu
65 70 75
Ser Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val
80 85 90
Ile Pro Leu Ala Ile Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys
95 100 105
Asn Pro Glu Ser Asn Tyr Cys Leu Lys Asn Asp Val Ser Asn Pro
110 115 120
Gln Gly Thr Leu Gln Asp Gly Thr Ser Arg Phe Thr Cys Arg Arg
125 130 135
Lys Pro Ile His His Phe Leu Gly Ile Ser Thr Phe Ser Gln Tyr
140 145 150
Thr Val Val Asp Glu Asn Ala Val Ala Lys Ile Asp Ala Ala Ser
155 160 165
Pro Leu Glu Lys Val Cys Leu Ile Gly Cys Gly Phe Ser Thr Gly
170 175 180
Tyr Gly Ser Ala Val Asn Val Ala Lys Val Thr Pro Gly Ser Thr
185 190 195
Cys Ala Val Phe Gly Leu Gly Gly Val Gly Leu Ser Ala Ile Met
200 205 210
Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile Ile Ala Val Asp Ile
215 220 225
Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu Gly Ala Thr Glu
230 235 240
Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln Glu Val Leu
245 250 255

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Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Val Ile
                260                 265                 270
Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His Glu
                275                 280                 285
Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Asp Ser Gln
                290                 295                 300
Asn Leu Ser Met Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp
                305                 310                 315
Lys Gly Ala Ile Leu Gly Gly Phe Lys Ser Lys Glu Cys Val Pro
                320                 325                 330
Lys Leu Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala
                335                 340                 345
Leu Ile Thr His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe
                350                 355                 360
Asp Leu Leu His Ser Gly Lys Ser Ile Arg Thr Ile Leu Met Phe
                365                 370                 375
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<210> 114
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2685676CB1

<400> 114
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ggcacacaac agaggcagtt ccagatttca actgctcatc agatggcggg aagatgaaga 180
cagatggtgc agccacagtt cgtttgatct ccagctcgag ccgctgcgtg ttttcctctt 240
gatcgggaac tcctgcttct ccttgcctcg aaatggaccc caactgctcc tgctcgcctg 300
ttggctcctg tgcctgtgcc ggctcctgca aatgcaaaga gtgcaaatgc acctcctgca 360
agaagagctg ctgctcctgc tgccctgtgg gctgtgccaa gtgtgcccag ggctgcatct 420
gcaaaggggc atcagagaag tgcagctgct gtgcctgatg tccggacagc cctgctcgaa 480
gatatagaaa gagtgacctg cacaaacttg gaatttttt tccatacaac cctgccccat 540
ctactgtatt ttttttaatg aaatatgtga atgataatag tca 583

<210> 115
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2685676CD1

<400> 115
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Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
                 20                  25                  30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
                 35                  40                  45
Gln Gly Cys Ile Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
                 50                  55                  60
Ala
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<210> 116
<211> 1759
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 2742913CB1

<400> 116
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gaattcggct cgaggtcacc tcctcccctt gtcgcctagg tccacccgag ccccctcccc 120
cgggccgccc acgagcacga agttggcggg agcctataaa agctggtgcc ggcgcgaccc 180
gcggacacac agtgcaggcg cccaagccgc cgccgccaga tcggtgccga ttcctgccct 240
gccccgaccg ccagcgcgac catgtcccat cactgggggt acggcaaaca caacggacct 300
gagcactggc ataaggactt ccccattgcc aagggagagc gccagtcccc tgttgacatc 360
gacactcata cagccaagta tgacccttcc ctgaagcccc tgtctgtttc ctatgatcaa 420
gcaacttccc tgaggatcct caacaatggt catgctttca acgtggagtt tgatgactct 480
caggacaaag cagtgctcaa gggaggaccc ctggatggca cttacagatt gattcagttt 540
cactttcact ggggttcact tgatggacaa ggttcagagc atactgtgga taaaaagaaa 600
tatgctgcag aacttcactt ggttcactgg aacaccaaat atggggattt tgggaaagct 660
gtgcagcaac ctgatggact ggccgttcta ggtatttttt tgaaggttgg cagcgctaaa 720
ccgggccttc agaaagttgt tgatgtgctg gattccatta aaacaaaggg caagagtgct 780
gacttcacta acttcgatcc tcgtggcctc cttcctgaat ccttggatta ctggacctac 840
ccaggctcac tgaccacccc tcctcttctg gaatgtgtga cctggattgt gctcaaggaa 900
cccatcagcg tcagcagcga gcaggtgttg aaattccgta aacttaactt caatggggag 960
ggtgaacccg aagaactgat ggtggacaac tggcgcccag ctcagccact gaagaacagg 1020
caaatcaaag cttccttcaa ataagatggt cccatagtct gtatccaaat aatgaatctt 1080
cgggtgtttc cctttagcta agcacagatc taccttggtg atttggaccc tggttgcttt 1140
gtgtctagtt ttctagaccc ttcatctctt acttgataga cttactaata aaatgtgaag 1200
actagaccaa ttgtcatgct tgacacaact gctgtggctg gttggtgctt tgtttatggt 1260
agtagttttt ctgtaacaca gaatatagga taagaaataa gaataaagta ccttgacttt 1320
gttcacagca tgtagggtga tgagcactca caattgttga ctaaaatgct gcttttaaaa 1380
cataggaaag tagaatggtt gagtgcaaat ccatagcaca agataaattg agctagttaa 1440
ggcaaatcag gtaaaatagt catgattcta tgtaatgtaa accagaaaaa ataaatgttc 1500
atgatttcaa gatgttatat taaagaaaaa ctttaaaaat tattatatat ttatagcaaa 1560
gttatcttaa atatgaattc tgttgtaatt taatgacttt tgaattacag agatataaat 1620
gaagtattat ctgtaaaaat tgttataatt agagttgtga tacagagtat atttccattc 1680
agacaatata tcataactta ataaatattg tattttagat atattctcta ataaaattca 1740
gaattctaaa aaaaaaaaa 1759

<210> 117
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2742913CD1

<400> 117
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Trp His Lys Asp Phe Pro Ile Ala Lys Gly Glu Arg Gln Ser Pro
20 25 30
Val Asp Ile Asp Thr His Thr Ala Lys Tyr Asp Pro Ser Leu Lys
35 40 45
Pro Leu Ser Val Ser Tyr Asp Gln Ala Thr Ser Leu Arg Ile Leu
50 55 60
Asn Asn Gly His Ala Phe Asn Val Glu Phe Asp Asp Ser Gln Asp
65 70 75
Lys Ala Val Leu Lys Gly Gly Pro Leu Asp Gly Thr Tyr Arg Leu
80 85 90
Ile Gln Phe His Phe His Trp Gly Ser Leu Asp Gly Gln Gly Ser
95 100 105
Glu His Thr Val Asp Lys Lys Lys Tyr Ala Ala Glu Leu His Leu
110 115 120
Val His Trp Asn Thr Lys Tyr Gly Asp Phe Gly Lys Ala Val Gln
125 130 135
Gln Pro Asp Gly Leu Ala Val Leu Gly Ile Phe Leu Lys Val Gly
140 145 150
Ser Ala Lys Pro Gly Leu Gln Lys Val Val Asp Val Leu Asp Ser

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                155                 160                 165
Ile Lys Thr Lys Gly Lys Ser Ala Asp Phe Thr Asn Phe Asp Pro
                170                 175                 180
Arg Gly Leu Leu Pro Glu Ser Leu Asp Tyr Trp Thr Tyr Pro Gly
                185                 190                 195
Ser Leu Thr Thr Pro Pro Leu Leu Glu Cys Val Thr Trp Ile Val
                200                 205                 210
Leu Lys Glu Pro Ile Ser Val Ser Ser Glu Gln Val Leu Lys Phe
                215                 220                 225
Arg Lys Leu Asn Phe Asn Gly Glu Gly Glu Pro Glu Glu Leu Met
                230                 235                 240
Val Asp Asn Trp Arg Pro Ala Gln Pro Leu Lys Asn Arg Gln Ile
                245                 250                 255
Lys Ala Ser Phe Lys
                260
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<210> 118
<211> 508
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 429183.1

<220>
<221> unsure
<222> 265, 290, 331-332, 356, 470
<223> a, t, c, g, or other

<400> 118
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ttggccggct ggagggcggc ctccagctcg gacagcttgg cgttggcacc cttaactgcc 180
cagctcctca ggctgctcgg catctgtgat ggcggcctcc agggaagccc tctggccttt 240
gaggcactca gtctcagcct ggagnccact gatgttccag ttcatctcgn aggtctcagt 300
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gatctggtac atgctctcaa cctcagccca gctgcggtta gcgatctcct agtactgcgc 420
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gacgtgtccg agatctgggt ctgcagct 508

<210> 119
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2757583CB1

<400> 119
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gctcctgcgc cgctggtgtc tcctgcacct gcgctggttc ctgcaagtgc aaagagtgca 180
aatgcacctc ctgcaagaag agctgctgct cctgctgccc cgtgggctgt agcaagtgtg 240
cccagggctg tgtttgcaaa ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg 300
acaacctttc tcccagatgt aaacagagag acatgtacaa acctggattt ttttttata 360
ccaccttgac ccatttgcta cattcctttt cctgtgaaat atgtgagtga taattaaaca 420
ctttagacct gaaaaaaaaa aa 442

<210> 120
<211> 61
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 2757583CD1

<400> 120
Met Asp Pro Asn Cys Ser Cys Ala Ala Gly Val Ser Cys Thr Cys
1 5 10 15
Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
20 25 30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala
35 40 45
Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
50 55 60
Asp

<210> 121
<211> 3686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1344279CB1

<400> 121
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tcgcctgttg gagccctggt taatttttgc ccagtctgcc tgttgtgggg ctcctccccc 240
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cagccaccac caaccccgcc tcggccacca ccttggacca aagtaaagcg tggaatcgtt 540
accgcctccc caacacgctg aaacccgatt cctaccaggt gacgctgaga ccgtacctca 600
cccccaatga caggggcctg tacgttttta agggctccag caccgtccgt ttcacctgca 660
aggaggccac tgacgtcatc atcatccaca gcaagaagct caactacacc ctcagccagg 720
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gccagtatga gatggacagc gagttcgagg gggagttggc agatgacctg gcgggcttct 900
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ccagcacccc acttccagaa gaccccaact ggaatgtcac tgagttccac accacgccca 1140
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catccaatgg tgtcttgatc cggatctggg cccggcccag tgccattgcg gcgggccacg 1260
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tggagaactg gggactggtg acctaccggg agaactccct gctgttcgac cccctgtcct 1440
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tccctgtcac tctggcgctg aacaacaccc tcttcctgat tgaagagaga cagtacatgc 2400
cctgggaggc cgccctgagc agcctgagct acttcaagct caagctcatg tttgaccgct 2460

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gcgaggttaa tgccatcagc accgcctgct ccaacggagt tccagagtgt gaggagatgg 2640
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aggagaacaa ggaggtggtg ctccagtggt tcacagaaaa cagcaaatag tccccagccc 3240
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gatggacaat gaacggcctt gctgggggcc gccctgtacc ctctttcacc tttccctaaa 3600
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<210> 122
<211> 969
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1344279CD1

<400> 122

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Val Val Tyr Ser Gln Glu Lys Asn Lys Asn Ala Asn Ser Ser Pro
             35                  40                  45
Val Ala Ser Thr Thr Pro Ser Ala Ser Ala Thr Thr Asn Pro Ala
             50                  55                  60
Ser Ala Thr Thr Leu Asp Gln Ser Lys Ala Trp Asn Arg Tyr Arg
             65                  70                  75
Leu Pro Asn Thr Leu Lys Pro Asp Ser Tyr Gln Val Thr Leu Arg
             80                  85                  90
Pro Tyr Leu Thr Pro Asn Asp Arg Gly Leu Tyr Val Phe Lys Gly
             95                 100                 105
Ser Ser Thr Val Arg Phe Thr Cys Lys Glu Ala Thr Asp Val Ile
            110                 115                 120
Ile Ile His Ser Lys Lys Leu Asn Tyr Thr Leu Ser Gln Gly His
            125                 130                 135
Arg Val Val Leu Arg Gly Val Gly Gly Ser Gln Pro Pro Asp Ile
            140                 145                 150
Asp Lys Thr Glu Leu Val Glu Pro Thr Glu Tyr Leu Val Val His
            155                 160                 165
Leu Lys Gly Ser Leu Val Lys Asp Ser Gln Tyr Glu Met Asp Ser
            170                 175                 180
Glu Phe Glu Gly Glu Leu Ala Asp Asp Leu Ala Gly Phe Tyr Arg
            185                 190                 195
Ser Glu Tyr Met Glu Gly Asn Val Arg Lys Val Val Ala Thr Thr
            200                 205                 210
Gln Met Gln Ala Ala Asp Ala Arg Lys Ser Phe Pro Cys Phe Asp
            215                 220                 225
Glu Pro Ala Met Lys Ala Glu Phe Asn Ile Thr Leu Ile His Pro
            230                 235                 240
Lys Asp Leu Thr Ala Leu Ser Asn Met Leu Pro Lys Gly Pro Ser
            245                 250                 255
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Thr Pro Leu Pro Glu Asp Pro Asn Trp Asn Val Thr Glu Phe His
260 265 270
Thr Thr Pro Lys Met Ser Thr Tyr Leu Leu Ala Phe Ile Val Ser
275 280 285
Glu Phe Asp Tyr Val Glu Lys Gln Ala Ser Asn Gly Val Leu Ile
290 295 300
Arg Ile Trp Ala Arg Pro Ser Ala Ile Ala Ala Gly His Gly Asp
305 310 315
Tyr Ala Leu Asn Val Thr Gly Pro Ile Leu Asn Phe Phe Ala Gly
320 325 330
His Tyr Asp Thr Pro Tyr Pro Leu Pro Lys Ser Asp Gln Ile Gly
335 340 345
Leu Pro Asp Phe Asn Ala Gly Ala Met Glu Asn Trp Gly Leu Val
350 355 360
Thr Tyr Arg Glu Asn Ser Leu Leu Phe Asp Pro Leu Ser Ser Ser
365 370 375
Ser Ser Asn Lys Glu Arg Val Val Thr Val Ile Ala His Glu Leu
380 385 390
Ala His Gln Trp Phe Gly Asn Leu Val Thr Ile Glu Trp Trp Asn
395 400 405
Asp Leu Trp Leu Asn Glu Gly Phe Ala Ser Tyr Val Glu Tyr Leu
410 415 420
Gly Ala Asp Tyr Ala Glu Pro Thr Trp Asn Leu Lys Asp Leu Met
425 430 435
Val Leu Asn Asp Val Tyr Arg Val Met Ala Val Asp Ala Leu Ala
440 445 450
Ser Ser His Pro Leu Ser Thr Pro Ala Ser Glu Ile Asn Thr Pro
455 460 465
Ala Gln Ile Ser Glu Leu Phe Asp Ala Ile Ser Tyr Ser Lys Gly
470 475 480
Ala Ser Val Leu Arg Met Leu Ser Ser Phe Leu Ser Glu Asp Val
485 490 495
Phe Lys Gln Gly Leu Ala Ser Tyr Leu His Thr Phe Ala Tyr Gln
500 505 510
Asn Thr Ile Tyr Leu Asn Leu Trp Asp His Leu Gln Glu Ala Val
515 520 525
Asn Asn Arg Ser Ile Gln Leu Pro Thr Thr Val Arg Asp Ile Met
530 535 540
Asn Arg Trp Thr Leu Gln Met Gly Phe Pro Val Ile Thr Val Asp
545 550 555
Thr Ser Thr Gly Thr Leu Ser Gln Glu His Phe Leu Leu Asp Pro
560 565 570
Asp Ser Asn Val Thr Arg Pro Ser Glu Phe Asn Tyr Val Trp Ile
575 580 585
Val Pro Ile Thr Ser Ile Arg Asp Gly Arg Gln Gln Gln Asp Tyr
590 595 600
Trp Leu Ile Asp Val Arg Ala Gln Asn Asp Leu Phe Ser Thr Ser
605 610 615
Gly Asn Glu Trp Val Leu Leu Asn Leu Asn Val Thr Gly Tyr Tyr
620 625 630
Arg Val Asn Tyr Asp Glu Glu Asn Trp Arg Lys Ile Gln Thr Gln
635 640 645
Leu Gln Arg Asp His Ser Ala Ile Pro Val Ile Asn Arg Ala Gln
650 655 660
Ile Ile Asn Asp Ala Phe Asn Leu Ala Ser Ala His Lys Val Pro
665 670 675
Val Thr Leu Ala Leu Asn Asn Thr Leu Phe Leu Ile Glu Glu Arg
680 685 690
Gln Tyr Met Pro Trp Glu Ala Ala Leu Ser Ser Leu Ser Tyr Phe
695 700 705
Lys Leu Lys Leu Met Phe Asp Arg Ser Glu Val Tyr Gly Pro Met
710 715 720
Lys Asn Tyr Leu Lys Lys Gln Val Thr Pro Leu Phe Ile His Phe
725 730 735
Arg Asn Asn Thr Asn Asn Trp Arg Glu Ile Pro Glu Asn Leu Met
740 745 750

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Asp Gln Tyr Ser Glu Val Asn Ala Ile Ser Thr Ala Cys Ser Asn
                755                 760                 765
Gly Val Pro Glu Cys Glu Glu Met Val Ser Gly Leu Phe Lys Gln
                770                 775                 780
Trp Met Glu Asn Pro Asn Asn Asn Pro Ile His Pro Asn Leu Arg
                785                 790                 795
Ser Thr Val Tyr Cys Asn Ala Ile Ala Gln Gly Gly Glu Glu Glu
                800                 805                 810
Trp Asp Phe Ala Trp Glu Gln Phe Arg Asn Ala Thr Leu Val Asn
                815                 820                 825
Glu Ala Asp Lys Leu Arg Ala Ala Leu Ala Cys Ser Lys Glu Leu
                830                 835                 840
Trp Ile Leu Asn Arg Tyr Leu Ser Tyr Thr Leu Asn Pro Asp Leu
                845                 850                 855
Ile Arg Lys Gln Asp Ala Thr Ser Thr Ile Ile Ser Ile Thr Asn
                860                 865                 870
Asn Val Ile Gly Gln Gly Leu Val Trp Asp Phe Val Gln Ser Asn
                875                 880                 885
Trp Lys Lys Leu Phe Asn Asp Tyr Gly Gly Gly Ser Phe Ser Phe
                890                 895                 900
Ser Asn Leu Ile Gln Ala Val Thr Arg Arg Phe Ser Thr Glu Tyr
                905                 910                 915
Glu Leu Gln Gln Leu Glu Gln Phe Lys Lys Asp Asn Glu Glu Thr
                920                 925                 930
Gly Phe Gly Ser Gly Thr Arg Ala Leu Glu Gln Ala Leu Glu Lys
                935                 940                 945
Thr Lys Ala Asn Ile Lys Trp Val Lys Glu Asn Lys Glu Val Val
                950                 955                 960
Leu Gln Trp Phe Thr Glu Asn Ser Lys
                965
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<210> 123
<211> 836
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1329472.2

<220>
<221> unsure
<222> 479
<223> a, t, c, g, or other

<400> 123
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acacagccac cctcggtgtc agtgtcccca ggacaaacgg ccaggatcac ctgctctgga 180
gatacattgc caaaaaactc tgcttattgg taccagcaga agtcaggcca ggccccggtg 240
ctggtcatct atgaggacac caaacgaccc tccgagatcc ctgagagatt ctctggctcc 300
agctcaggga caatgccacc ttgactatca gtggggccca gtggaggatg aagctgacta 360
ctactgttac tcaacagaca gggtgttcgg cggagggacc aaggtgaccg tcctaggtca 420
gcccaaggct gcccccctcgg tcactctgtt cccaccctcc tctgaggagc ttcaagccna 480
caaggccaca ctggtgtgtc tcataagtga cttctacccg tgagccaccg cgcccagccc 540
attgtatttt cttaacagac agatattgtc ttcttgacta tcagtggggc ccaggtggag 600
gatgaagctg actactactg ttactcaaca gacagggtgt tcggcggagg gaccaaggtg 660
accgtcctag gtcagcccaa ggctgccccc tcggtcactc tgttcccacc ctcctctgag 720
gagcttcaag ccaacaaggc cacactggtg tgtctcataa gtgacttcta cccgggagcc 780
gtgacagtgg cctggaaggc agatagcagc cccgtcaagg cgggagtgga gaccac   836

<210> 124
<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474457.35

<400> 124
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ggatcacacc ctttgggaac acatccaagc ttaagacggt gaggtcagct tcacattctc 120
aggaactctc cttctttggg ccacggaatt aacccgagca ggcatggagg cctctgctct 180
cacctcatca gcagtgacca gtgtggccaa agtggtcagg gtggcctctg gctctgccgt 240
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cattgggtct gccattgcgg ctgtcattgc gaggttctac tagctccctg cccctcgccc 540
tgcagagaag agaaccatgc caggggagaa ggcacccagc catcctgacc cagcgaggag 600
ccaactatcc caaatatacc tggggtgaaa tataccaaat tctgcatctc cagaggaaag 660
tgagaaatag agatgaagtg ttgt 684

<210> 125
<211> 644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 474457.45

<400> 125
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tctcacctca tcagcagtga ccagtgtggc caaagtggtc agggtggcct ctggctctgc 180
cgtagttttg cccctggcca ggattgctac agttgtgatt ggaggagttg tggctgtgcc 240
catggtgctc agtgccatgg gcttcactgc ggcgggaatc gcctcgtcct ccatagcagc 300
caagatgatg tccgcggcgg ccattgccaa tgggggtgga gttgcctcgg gcagccttgt 360
ggctactctg cagtcactgg gagcaactgg actctccgga ttgaccaagt tcatcctggg 420
ctccattggg tctgccattg cggctgtcat tgcgaggttc tactagctcc ctgcccctcg 480
ccctgcagag aagagaacca tgccagggga gaaggcaccc agccatcctg acccagcgag 540
gagccaacta tcccaaatat acctggggtg aaatatacca aattctgcat ctccagagga 600
aaataagaaa taaagatgaa ttgttgcaac tctaaaaaaa aaaa 644

<210> 126
<211> 1115
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 898779CB1

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gcctgggcga cagagcaaga cttcatctca aaaaaaaaaa aaaagggcgg cgctcctcgc 180
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gcctgctggg gcaggggget acccaggggc ttcctatcct ggggcctacc ccgggcaggc 360
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agtcattgtt tgcaatacaa agctggataa taactgggga agggaagaaa gacagtcggt 780
tttcccattt gaaagtggga aaccattcaa aatacaagta ctggttgaac ctgaccactt 840
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tgaaatcagc aaactgggaa tttctggtga catagacctc accagtgctt catataccat 960

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35 40 45
Pro Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro
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Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro
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Ser Ser Gly Gln Pro Ser Ala Pro Gly Ala Tyr Pro Ala Thr Gly
95 100 105
Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro Tyr Asn Leu
110 115 120
Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr Ile Leu
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Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe Gln
140 145 150
Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
155 160 165
Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn
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Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly
185 190 195
Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys
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Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val
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             35                  40                  45
Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
             50                  55                  60
Glu Glu Glu Gly Ile Leu Arg Arg Leu Lys Lys Tyr Asp Asn Cys
             65                  70                  75
Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
             80                  85                  90
Lys Thr Val Ile Val Thr Gln Glu Gln Arg Asp Thr Val Pro Ile
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Pro Lys Thr Gly Leu Ser Gln Leu Gly Arg Trp Met Ser Glu Glu
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Asp Phe Glu Lys Ala Phe Asn Ala Arg Phe Pro Gly Cys Met Lys
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170 175 180
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185 190 195
Val Gly Cys Pro Leu Pro Leu Gln Lys Pro Leu Val Asn Asn Trp
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215 220 225
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Leu Gly Lys Lys Cys Phe Ala Leu Arg Met Ala Ser Arg Leu Ala
245 250 255
Lys Glu Glu Gly Trp Leu Ala Glu His Met Leu Ile Leu Gly Ile
260 265 270
Thr Asn Pro Glu Gly Glu Lys Lys Tyr Leu Ala Ala Ala Phe Pro
275 280 285
Ser Ala Cys Gly Lys Thr Asn Leu Ala Met Met Asn Pro Ser Leu
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Lys Phe Asp Ala Gln Gly His Leu Arg Ala Ile Asn Pro Glu Asn
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Gln His Gly Val Phe Val Gly Ala Ala Met Arg Ser Glu Ala Thr
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Ala Met Arg Pro Phe Phe Gly Tyr Asn Phe Gly Lys Tyr Leu Ala
485 490 495
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Ile Phe His Val Asn Trp Phe Arg Lys Asp Lys Glu Gly Lys Phe
515 520 525
Leu Trp Pro Gly Phe Gly Glu Asn Ser Arg Val Leu Glu Trp Met
530 535 540
Phe Asn Arg Ile Asp Gly Lys Ala Ser Thr Lys Leu Thr Pro Ile
545 550 555
Gly Tyr Ile Pro Lys Glu Asp Ala Leu Asn Leu Lys Gly Leu Gly
560 565 570
His Ile Asn Met Met Glu Leu Phe Ser Ile Ser Lys Glu Phe Trp
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Glu Lys Glu Val Glu Asp Ile Glu Lys Tyr Leu Glu Asp Gln Val
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caagttctta cctcatgtga atattcaccc tttctttagt cttccaaggc aaacagcccc 4020
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tttaccaggt cacagactgt agcagattgt gcttgttatc tgacaatgac tgtcactttg 4380
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<210> 133
<211> 1456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235845.20

<400> 133
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ctttaaagcg cctaccctgc ctgcaggtga gcagtggtgt gtgagagcca ggcgtccctc 180
tgcctgccca ctcagtggca acacccggga gctgttttgt cctttgtgga gcctcagcag 240
ttccctcttt cagaactcac tgccaagagc cctgaacagg agccaccatg cagtgcttca 300
gcttcattaa gaccatgatg atcctcttca atttgctcat ctttctgtgt ggtgcagccc 360
tgttggcagt gggcatctgg gtgtcaatcg atggggcatc ctttctgaag atcttcgggc 420
cactgtcgtc cagtgccatg cagtttgtca acgtgggcta cttcctcatc gcagccggcg 480
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ccctcgtgac gttcttcttc atcctcctcc tcatcttcat tgctgaggtt gcagctgctg 600
tggtcgcctt ggtgtacacc acaatggctg agcacttcct gacgttgctg gtagtgcctg 660
ccatcaagaa agattatggt tcccaggaag acttcactca agtgtggaac accaccatga 720
aagggctcaa gtgctgtggc ttcaccaact atacggattt tgaggactca ccctacttca 780
aagagaacag tgcctttccc ccattctgtt gcaatgacaa cgtcaccaac acagccaatg 840
aaacctgcac caagcaaaag gctcacgacc aaaaagtaga gggttgcttc aatcagcttt 900
tgtatgacat ccgaactaat gcagtcaccg tgggtggtgt ggcagctgga attgggggcc 960
tcgagctggc tgccatgatt gtgtccatgt atctgtactg caatctacaa taagtccact 1020

tctgcctctg ccactactgc tgccacatgg gaactgtgaa gaggcaccct ggcaagcagc 1080
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ttccattggt gggtggatgg gtgggggggca ttccagagcc tctaaggtag ccagttctgt 1260
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aaaaaaaaca aaaagg 1456

<210> 134
<211> 1398
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 266360.18

<400> 134
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cggagggcct gcgtttcccg gacaaactca ggatccgctg tatggttact ttgctgctgt 180
agctggacag gatgggcaga tagatgctga tgaattgcag agatgtctga cacagtctgg 240
cattgctgga ggatacaaac cttttaacct ggagacttgc cggcttatgg tttcaatgct 300
ggatagagat atgtctggca caatgggttt caatgaattt aaagaactct gggctgtact 360
gaatggctgg agacaacact ttatcagttt tgacactgac aggagtggaa cagtagaccc 420
acaagaattg cagaaggccc tgacaacaat gggatttagg ttgagtcccc aggctgtgaa 480
ttcaattgca aaacgataca gcaccaatgg aaagatcacc ttcgacgact acatcgcctg 540
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tgttgtgaat ttcccatatg atgatttcat tcaatgtgtc atgagtgttt aaatcaagag 660
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ttactttatg tacaactgaa gttttgtttt agttttgata ataaattctt tggaacttta 840
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ttttcttgct aaaactctat gtaaatttaa gtatgcaaaa tgtttaagtc acattattta 960
tttttcattg tgagacacta aaaactgtta atcagactac agctgttatc tttcctctcc 1020
tacaaagaat actccacaca taaaaactta ggtaaatgac atagacgcac ttgggtgaaa 1080
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cacgcccttc aaaacctgtt gaataatttg attggcaaat actatctgtc accaagtccc 1200
tttttgtcat ctatttaaac ctttgttaac tctccttaaa aatcttgtac attataagct 1260
taactatata aaaagaaaat tgatagaata aggctaaggg ggtatatgga tatattaacg 1320
atgtttagtt tggatgagtg agatctagat gacttatgat tgcttagatc agtggtgtcc 1380
gagttccata ggcttgcc 1398

<210> 135
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 266360.15

<220>
<221> unsure
<222> 77, 103
<223> a, t, c, g, or other

<400> 135
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cccaggcggg gtaagtngct gactgcgcgg gatcgcggcc cangcggctc cggggcgcta 120
agaggccacc ttggagatgc tgcggccagc gggtatggag gggctcccgg agggcctgcg 180
tttcccggac aaactcagga tccgctgtat ggttactttg ctgctgtagc tggacaggat 240
gggcagatag atgctgatga attgcagaga tgtctgacac agtctggcat tgctggagga 300
tacaaacgat ttaggttgag tccccaggct gtgaattcaa ttgcaaaacg atacagcacc 360
aatggaaaga tcaccttcga cgactacatc gcctgctgcg tcaaactgag ggctcttaca 420

gacagctttc gaagacggga tactgctcag caaggtgttg tgaatttccc atatgatgat 480
ttcattcaat gtgtcatgag tgtttaaatc aagaggaagc tgcatgaatg taatcaacat 540
tccaactgga gctctccttt gcttgtcctc tttgccttcg gtaatatgta taaacttaca 600
tcacgacttt ctcttaacag ctgttgtaaa gtttattact ttatgtacaa ctgaagtttg 660
gttttagttt tgataataaa ttctttggaa cttt 694

<210> 136
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1310030.1

<400> 136
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atcactcact gtgcagggtc ctgggcccag tctgtgctga ctcagccacc ctcggtgtct 120
gggacccccg gacagagggt caccatctcc tgttctggca gcagctccaa catcggaagt 180
ctactgtgac tggtatcaac aattcccagg aatggccccc agacttctca tttataggga 240
ttatcagcgg ccctcagggg tccctgaccg attctactgg ctccaggtct ggcaccgcag 300
cctccctggc catcagtggt ctccagcctg aagatgaggc tgattactat tgtgcacctg 360
ggataccagc ctgggtgttc atgtgctgtt cggcggaggg accaaa 406

<210> 137
<211> 1380
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2804864CB1

<400> 137
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cggacaaact caggatccgc tgtatggtta ctttgctgct gtagctggac aggatgggca 180
gatagatgct gatgaattgc agagatgtct gacacagtct ggcattgctg gaggatacaa 240
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cacaatgggt ttcaatgaat ttaaagaact ctgggctgta ctgaatggct ggagacaaca 360
ctttatcagt tttgacactg acaggagtgg aacagtagac ccacaagaat tgcagaaggc 420
cctgacaaca atgggattta ggttgagtcc ccaggctgtg aattcaattg caaaacgata 480
cagcaccaat ggaaagatca ccttcgacga ctacatcgcc tgctgcgtca aactgagggc 540
tcttacagac agctttcgaa gacgggatac tgctcagcaa ggtgttgtga atttcccata 600
tgatgatttc attcaatgtg tcatgagtgt ttaaatcaag aggaagctgc atgaatgtaa 660
tcaacattcc aactggagct ctcctttgct tgtcctcttt gccttcggta atatgtataa 720
acttacatca cgactttctc ttaacagctg ttgtaaagtt tattacttta tgtacaactg 780
aagttttgtt ttagttttga taataaattc tttggaactt taataagatc tagtctgtta 840
caccatttag aactttcctg agccattatc agtcatgcct tattttcttg ctaaaactct 900
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aatccagtaa tccacgtcag gattcacctt agaagtttag cacacgccct tcaaaacctg 1140
ttgaataatt tgattggcaa atactatctg tcaccaagtc ccttttttgtc atctatttaa 1200
acctttgtta actctcctta aaaatcttgt acattataag cttaactata taaaaagaaa 1260
attgatagaa taaggctaag ggggtatatg gatatattaa cgatgtttag tttggatgag 1320
tgagatctag atgacttatg attgcttaga tcagtggtgt ccgagttcca taggcttgcc 1380

<210> 138
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2804864CD1

<400> 138
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Gly Gly Tyr Gly Gly Ala Pro Gly Gly Pro Ala Phe Pro Gly Gln
20 25 30
Thr Gln Asp Pro Leu Tyr Gly Tyr Phe Ala Ala Val Ala Gly Gln
35 40 45
Asp Gly Gln Ile Asp Ala Asp Glu Leu Gln Arg Cys Leu Thr Gln
50 55 60
Ser Gly Ile Ala Gly Gly Tyr Lys Pro Phe Asn Leu Glu Thr Cys
65 70 75
Arg Leu Met Val Ser Met Leu Asp Arg Asp Met Ser Gly Thr Met
80 85 90
Gly Phe Asn Glu Phe Lys Glu Leu Trp Ala Val Leu Asn Gly Trp
95 100 105
Arg Gln His Phe Ile Ser Phe Asp Thr Asp Arg Ser Gly Thr Val
110 115 120
Asp Pro Gln Glu Leu Gln Lys Ala Leu Thr Thr Met Gly Phe Arg
125 130 135
Leu Ser Pro Gln Ala Val Asn Ser Ile Ala Lys Arg Tyr Ser Thr
140 145 150
Asn Gly Lys Ile Thr Phe Asp Asp Tyr Ile Ala Cys Cys Val Lys
155 160 165
Leu Arg Ala Leu Thr Asp Ser Phe Arg Arg Arg Asp Thr Ala Gln
170 175 180
Gln Gly Val Val Asn Phe Pro Tyr Asp Asp Phe Ile Gln Cys Val
185 190 195
Met Ser Val

<210> 139
<211> 1527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 349615.7

<400> 139
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atgctcctac cctcaccccc ttgcaggaac ttgcatcaac aatacttcag tcatgatgtt 180
taaaaagggg agctttgaaa ttggaggaac catacatcca gttgcaatta agtataaccc 240
tcagttcggt gatgcatttt ggaacagtag taaatacaac atggtgagct acctgcttcg 300
aatgatgacc agctgggcca tcgtctgtga cgtgtggtac atgccccca tgaccagaga 360
ggaaggagaa gatgcagtcc agtttgctaa cagggttaag tctgctattg ctatacaagg 420
aggcctgact gaacttccct gggatggagg actaaagaga gcaaaggtga aggacatctt 480
taaggaagag cagcagaaaa attacagcaa gatgattgtg ggcaatggat ctctcagcta 540
agaggacgga tgacagcctt tagatctaga actagccctt agaaatggaa tggctttttt 600
gttttgtttt gttttattgt tttgttttta ttattgttaa tcttttctac agaatgattg 660
tctctacctc tttatgccag aggcagaacc tacaggtgcc ctttttggct tttgttgttg 720
ttgtaacatt agccccatgg attgtaaggt ggtttactga gttaaaacag attctgcttt 780
tgtaaaatga tggcatcact gtggactgaa tgaaatattt gtatagaaaa aagtgcttga 840
aaagtgtgtt tggaactcat cgatagggta attctccaaa aatgcccaaa ctctctttct 900
gtaattagcc ttgccacttt cttcagtcac ttaaatggtg agattacaca tcagtgcaag 960
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tcattagtgt gttggaagag aaatactatt cagtaagctt cgccaaagaa aagtgagtca 1140
aagttaatgt gtgtgtgcat ttatatgtag gcagctcgta gaccacattt tagccagcaa 1200
ctggtaacaa agagcttagt tttccttgtt tgaatgctgt agatctgtac ctagtacccc 1260
tcccatctac tgatttgttt gtttttgtaa ccaaacacat tttcagatag aaggagcctt 1320
aaaaaaaaaa aaatcacatt gagtaacttc agtatgaatg aatgagagtg tgtggagcta 1380
cccctcaccc tccacccctt tgggcttttt attcccgaat tttcccagtc tcttaaacag 1440
aaaaatgact gatataatta tcttttggaa actgagcctt aatttttttt agaggggggaa 1500
ataagtttcc ccaactcaca cagcata 1527

<210> 140
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 632664CB1

<400> 140
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gccgcccttc gagggcgccc caggccgcgc catggtgaag gtgacgttca actccgctct 180
ggcccagaag gaggccaaga aggacgagcc caagagcggc gaggaggcgc tcatcatccc 240
ccccgacgcc gtcgcggtgg actgcaagga cccagatgat gtggtaccag ttggccaaag 300
aagagcctgg tgttggtgca tgtgctttgg actagcattt atgcttgcag gtgttattct 360
aggaggagca tacttgtaca aatattttgc acttcaacca gatgacgtgt actactgtgg 420
aataaagtac atcaaagatg atgtcatctt aaatgagccc tctgcagatg ccccagctgc 480
tctctaccag acaattgaag aaaatattaa aatctttgaa gaagaagaag ttgaatttat 540
cagtgtgcct gtcccagagt ttgcagatag tgatcctgcc aacattgttc atgactttaa 600
caagaaactt acagcctatt tagatcttaa cctggataag tgctatgtga tccctctgaa 660
cacttccatt gttatgccac ccagaaacct actggagtta cttattaaca tcaaggctgg 720
aacctatttg cctcagtcct atctgattca tgagcacatg gttattactg atcgcattga 780
aaacattgat cacctgggtt tctttattta tcgactgtgt catgacaagg aaacttacaa 840
actgcaacgc agagaaacta ttaaaggtat tcagaaacgt gaagccagca attgtttcgc 900
aattcggcat tttgaaaaca aatttgccgt ggaaacttta atttgttctt gaacagtcaa 960
gaaaaacatt attgaggaaa attaatatca cagcataacc ccacccttta cattttgtgc 1020
agtgattatt ttttaaagtc ttctttcatg taagtagcaa acagggcttt actatctttt 1080
catctcatta attcaattaa aaccattacc ttaa 1114

<210> 141
<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 632664CD1

<400> 141
Met Val Lys Val Thr Phe Asn Ser Ala Leu Ala Gln Lys Glu Ala
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Lys Lys Asp Glu Pro Lys Ser Gly Glu Glu Ala Leu Ile Ile Pro
20 25 30
Pro Asp Ala Val Ala Val Asp Cys Lys Asp Pro Asp Asp Val Val
35 40 45
Pro Val Gly Gln Arg Arg Ala Trp Cys Trp Cys Met Cys Phe Gly
50 55 60
Leu Ala Phe Met Leu Ala Gly Val Ile Leu Gly Gly Ala Tyr Leu
65 70 75
Tyr Lys Tyr Phe Ala Leu Gln Pro Asp Asp Val Tyr Tyr Cys Gly
80 85 90
Ile Lys Tyr Ile Lys Asp Asp Val Ile Leu Asn Glu Pro Ser Ala
95 100 105
Asp Ala Pro Ala Ala Leu Tyr Gln Thr Ile Glu Glu Asn Ile Lys
110 115 120
Ile Phe Glu Glu Glu Glu Val Glu Phe Ile Ser Val Pro Val Pro
125 130 135
Glu Phe Ala Asp Ser Asp Pro Ala Asn Ile Val His Asp Phe Asn
140 145 150
Lys Lys Leu Thr Ala Tyr Leu Asp Leu Asn Leu Asp Lys Cys Tyr
155 160 165
Val Ile Pro Leu Asn Thr Ser Ile Val Met Pro Pro Arg Asn Leu
170 175 180
Leu Glu Leu Leu Ile Asn Ile Lys Ala Gly Thr Tyr Leu Pro Gln
185 190 195

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Ser Tyr Leu Ile His Glu His Met Val Ile Thr Asp Arg Ile Glu
                200                 205                 210
Asn Ile Asp His Leu Gly Phe Phe Ile Tyr Arg Leu Cys His Asp
                215                 220                 225
Lys Glu Thr Tyr Lys Leu Gln Arg Arg Glu Thr Ile Lys Gly Ile
                230                 235                 240
Gln Lys Arg Glu Ala Ser Asn Cys Phe Ala Ile Arg His Phe Glu
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Asn Lys Phe Ala Val Glu Thr Leu Ile Cys Ser
                260                 265
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<210> 142
<211> 1030
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 995929.22

<400> 142
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ctggtgcacc accaccatgt tggctgcaag gctggtgtgt ctccggacac taccttctag 180
ggttttccac ccagctttca ccaaggcctc ccctgttgtg aagaattcca tcacgaagaa 240
tcaatggctg ttaacaccta gcagggaata tgccaccaaa acaagaattg ggatccggcg 300
tgggagaact ggccaagaac tcaaagaggc agcattggaa ccatcgatgg aaaaaatatt 360
taaaattgat cagatgggaa gatggtttgt tgctggaggg gctgctgttg gtcttggagc 420
attgtgctac tatggcttgg gactgtctaa tgagattgga gctattgaaa aggctgtaat 480
ttggcctcag tatgtcaagg atagaattca ttccacctat atgtacttag cagggagtat 540
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gatgagaggc tcttgggtga caattggtgt gacctttgca gccatggttg gagctggaat 660
gctggtacga tcaataccat atgaccagag cccaggccca aagcatcttg cttggttgct 720
acattctggt gtgatgggtg cagtggtggc tcctctgaca atattagggg gtcctcttct 780
catcagagct gcatggtaca cagctggcat tgtgggaggc ctctccactg tggccatgtg 840
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ctttgtgtcc tcattgggat ctatgtttct tccacctacc accgtggctg gtgccactct 960
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ccagaaagta   1030

<210> 143
<211> 2386
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 995929.27

<220>
<221> unsure
<222> 1907, 2297
<223> a, t, c, g, or other

<400> 143
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caaggcctcc cctgttgtga agaattccat cacgaagaat caatggctgt taacacctag 180
cagggaatat gccaccaaaa caagaattgg gatccggcgt gggagaactg gccaagaact 240
caaagaggca gcattggaac catcgatgga aaaaatattt aaaattgatc agatgggaag 300
atggtttgtt gctggagggg ctgctgttgg tcttgggtga caattggtgt gacctttgca 360
gccatggttg gagctggaat gctggtacga tcaataccat atgaccagag cccaggccca 420
aagcatcttg cttggttgct acattctggt gtgatgggtg cagtggtggc tcctctgaca 480
atattagggg gtcctcttct catcagagct gcatggtaca cagctggcat tgtgggaggc 540
ctctccactg tggccatgtg tgcgcccagt gaaaagtttc tgaacatggg tgcacccctg 600
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accgtggctg gtgccactct ttactcagtg gcaatgtacg gtggattagt tcttttcagc 720
atgttccttc tgtatgatac ccagaaagta atcaagcgtg cagaagtatc accaatgtat 780
ggagttcaaa aatatgatcc cattaactcg atgctgagta tctacatgga tacattaaat 840
atatttatgc gagttgcaac tatgctggca actggaggca acagaaagaa atgaagtgac 900
tcagcttctg gcttctctgc tacatcaaat atcttgttta atggggcaga tatgcattaa 960
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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1397029.1

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tatgataaat tataagtccc taattggcac tgttgtttat attagcctcc tggatcattt 240
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<211> 841
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 403560.1

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tggaatcctg tctcctgtag tttggctaca gtcaaaatga aggaatgcct gagaggaaaa 240
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<210> 146
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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1329606.3

<220>
<221> unsure
<222> 134, 198, 206
<223> a, t, c, g, or other

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<210> 147
<211> 532
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1092257.12

<220>
<221> unsure
<222> 321, 371, 441, 482, 491, 526
<223> a, t, c, g, or other

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gagtctgaca tggctgtcag cgacgcgctg ctcccatctt tctccacgtt cgcgtctggc 240
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ccggttcctg catgcccaga ngagcccaag ccaaagaggg gaagacgatc gtggccccgg 360
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ttcccatctc aaggcacacc ntgcgaaccc cacacaggtg aggaacctta ccactgtgac 480
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<210> 148
<211> 1853
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 474322.38

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gtttaaaggc ccagaaagga gacagagaag ggatggacag agagggagaa ggggaactga 300
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<210> 149
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255002.3

<220>
<221> unsure
<222> 240, 321
<223> a, t, c, g, or other

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tttatggaga tacaaaggaa agaaaccagc cacattagga aacaatactc agctctttga 180
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<210> 150
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1330137.1

<220>
<221> unsure
<222> 139
<223> a, t, c, g, or other

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attccaaatt ctgcttgcnt gctttttaat attgatatgc ttatacactt acactttatg 180
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<210> 151
<211> 2349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3699582CB1

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<210> 152
<211> 533
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3699582CD1

<400> 152

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Leu Leu Ile Pro Val Asp Gly Ser His Trp Leu Ser Met Leu Gly
             35                  40                  45
Ala Ile Gln Gln Leu Gln Gln Arg Gly His Glu Ile Val Val Leu
             50                  55                  60
Ala Pro Asp Ala Ser Leu Tyr Ile Arg Asp Gly Ala Phe Tyr Thr
             65                  70                  75
Leu Lys Thr Tyr Pro Val Pro Phe Gln Arg Glu Asp Val Lys Glu
             80                  85                  90
Ser Phe Val Ser Leu Gly His Asn Val Phe Glu Asn Asp Ser Phe
             95                 100                 105
Leu Gln Arg Val Ile Lys Thr Tyr Lys Lys Ile Lys Lys Asp Ser
            110                 115                 120
Ala Met Leu Leu Ser Gly Cys Ser His Leu Leu His Asn Lys Glu
            125                 130                 135
Leu Met Ala Ser Leu Ala Glu Ser Ser Phe Asp Val Met Leu Thr
            140                 145                 150
Asp Pro Phe Leu Pro Cys Ser Pro Ile Val Ala Gln Tyr Leu Ser
            155                 160                 165
Leu Pro Thr Val Phe Phe Leu His Ala Leu Pro Cys Ser Leu Glu
            170                 175                 180
Phe Glu Ala Thr Gln Cys Pro Asn Pro Phe Ser Tyr Val Pro Arg
            185                 190                 195
Pro Leu Ser Ser His Ser Asp His Met Thr Phe Leu Gln Arg Val
            200                 205                 210
Lys Asn Met Leu Ile Ala Phe Ser Gln Asn Phe Leu Cys Asp Val
            215                 220                 225
Val Tyr Ser Pro Tyr Ala Thr Leu Ala Ser Glu Phe Leu Gln Arg
            230                 235                 240
Glu Val Thr Val Gln Asp Leu Leu Ser Ser Ala Ser Val Trp Leu
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Leu Ser Gln Glu Phe Glu Ala Tyr Ile Asn Ala Ser Gly Glu His
                290                 295                 300
Gly Ile Val Val Phe Ser Leu Gly Ser Met Val Ser Glu Ile Pro
                305                 310                 315
Glu Lys Lys Ala Met Ala Ile Ala Asp Ala Leu Gly Lys Ile Pro
                320                 325                 330
Gln Thr Val Leu Trp Arg Tyr Thr Gly Thr Arg Pro Ser Asn Leu
                335                 340                 345
Ala Asn Asn Thr Ile Leu Val Lys Trp Leu Pro Gln Asn Asp Leu
                350                 355                 360
Leu Gly His Pro Met Thr Arg Ala Phe Ile Thr His Ala Gly Ser
                365                 370                 375
His Gly Val Tyr Glu Ser Ile Cys Asn Gly Val Pro Met Val Met
                380                 385                 390
Met Pro Leu Phe Gly Asp Gln Met Asp Asn Ala Lys Arg Met Glu
                395                 400                 405
Thr Lys Gly Ala Gly Val Thr Leu Asn Val Leu Glu Met Thr Ser
                410                 415                 420
Glu Asp Leu Glu Asn Ala Leu Lys Ala Val Ile Asn Asp Lys Ser
                425                 430                 435
Tyr Lys Glu Asn Ile Met Arg Leu Ser Ser Leu His Lys Asp Arg
                440                 445                 450
Pro Val Glu Pro Leu Asp Leu Ala Val Phe Trp Val Glu Phe Val
                455                 460                 465
Met Arg His Lys Gly Ala Pro His Leu Arg Pro Ala Ala His Asp
                470                 475                 480
Leu Thr Trp Tyr Gln Tyr His Ser Leu Asp Val Ile Gly Phe Leu
                485                 490                 495
Leu Ala Val Val Leu Thr Val Ala Phe Ile Thr Phe Lys Cys Cys
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Ala Tyr Gly Tyr Arg Lys Cys Leu Gly Lys Lys Gly Arg Val Lys
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Lys Ala His Lys Ser Lys Thr His
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<210> 153
<211> 2385
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 344537.24

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<211> 391
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<213> Homo sapiens

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<223> Incyte ID No: 016124.2

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<222> 379, 385-386
<223> a, t, c, g, or other

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<211> 3607
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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<221> unsure
<222> 1582, 1591, 1604, 1648
<223> a, t, c, g, or other

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<211> 1760
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 3355973CB1

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<212> PRT
<213> Homo sapiens

<220>
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35 40 45
Phe Arg Gly Gly Leu Gly Gly Gly Tyr Gly Gly Ala Ser Gly Met
50 55 60
Gly Gly Ile Thr Ala Val Thr Val Asn Gln Ser Leu Leu Ser Pro
65 70 75
Leu Val Leu Glu Val Asp Pro Asn Ile Gln Ala Val Arg Thr Gln
80 85 90
Glu Lys Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser Phe
95 100 105
Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Met Leu Glu
110 115 120
Thr Lys Trp Ser Leu Leu Gln Gln Gln Lys Thr Ala Arg Ser Asn
125 130 135
Met Asp Asn Met Phe Glu Ser Tyr Ile Asn Asn Leu Arg Arg Gln
140 145 150
Leu Glu Thr Leu Gly Gln Glu Lys Leu Lys Leu Glu Ala Glu Leu
155 160 165
Gly Asn Met Gln Gly Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu
170 175 180
Asp Glu Ile Asn Lys Arg Thr Glu Met Glu Asn Glu Phe Val Leu
185 190 195
Ile Lys Lys Asp Val Asp Glu Ala Tyr Met Asn Lys Val Glu Leu
200 205 210
Glu Ser Arg Leu Glu Gly Leu Thr Asp Glu Ile Asn Phe Leu Arg
215 220 225
Gln Leu Tyr Glu Glu Glu Ile Arg Glu Leu Gln Ser Gln Ile Ser
230 235 240
Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp

245 250 255
Met Asp Ser Ile Ile Ala Glu Val Lys Ala Gln Tyr Glu Asp Ile
260 265 270
Ala Asn Arg Ser Arg Ala Glu Ala Glu Ser Met Tyr Gln Ile Lys
275 280 285
Tyr Glu Glu Leu Gln Ser Leu Ala Gly Lys His Gly Asp Asp Leu
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Arg Arg Thr Lys Thr Glu Ile Ser Glu Met Asn Arg Asn Ile Ser
305 310 315
Arg Leu Gln Ala Glu Ile Glu Gly Leu Lys Gly Gln Arg Ala Ser
320 325 330
Leu Glu Ala Ala Ile Ala Asp Ala Glu Gln Arg Gly Glu Leu Ala
335 340 345
Ile Lys Asp Ala Asn Ala Lys Leu Ser Glu Leu Glu Ala Ala Leu
350 355 360
Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu Arg Glu Tyr Gln
365 370 375
Glu Leu Met Asn Val Lys Leu Ala Leu Asp Ile Glu Ile Ala Thr
380 385 390
Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Glu Ser Gly
395 400 405
Met Gln Asn Met Ser Ile His Thr Lys Thr Thr Ser Gly Tyr Ala
410 415 420
Gly Gly Leu Ser Ser Ala Tyr Gly Gly Leu Thr Ser Pro Gly Leu
425 430 435
Ser Tyr Ser Leu Gly Ser Ser Phe Gly Ser Gly Ala Gly Ser Ser
440 445 450
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Ile Glu Thr Arg Asp Gly Lys Leu Val Ser Glu Ser Ser Asp Val
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<211> 5427
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 406457.3

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Doc#: US-PA-0038

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<213> Homo sapiens

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35 40 45
Gly Phe Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser Leu
50 55 60
Gly Lys Asn Pro Thr Asp Glu Tyr Leu Asp Ala Met Met Asn Glu
65 70 75
Ala Pro Gly Pro Ile Asn Phe Thr Met Phe Leu Thr Met Phe Gly
80 85 90
Glu Lys Leu Asn Gly Thr Asp Pro Glu Asp Val Ile Arg Asn Ala
95 100 105
Phe Ala Cys Phe Asp Glu Glu Ala Thr Gly Thr Ile Gln Glu Asp
110 115 120
Tyr Leu Arg Glu Leu Leu Thr Thr Met Gly Asp Arg Phe Thr Asp
125 130 135
Glu Glu Val Asp Glu Leu Tyr Arg Glu Ala Pro Ile Asp Lys Lys
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155 160 165
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170

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<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<220>
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<210> 165
<211> 1636
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 2434655CB1

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<210> 166
<211> 527
<212> PRT
<213> Homo sapiens

<220>
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20 25 30
Cys Asp Met Ser His Trp Leu Asn Val Lys Val Ile Leu Glu Glu
35 40 45
Leu Ile Val Arg Gly His Glu Val Thr Val Leu Thr His Ser Lys
50 55 60
Pro Ser Leu Ile Asp Tyr Arg Lys Pro Ser Ala Leu Lys Phe Glu
65 70 75
Val Val His Met Pro Gln Asp Arg Thr Glu Glu Asn Glu Ile Phe
80 85 90
Val Asp Leu Ala Leu Asn Val Leu Pro Gly Leu Ser Thr Trp Gln
95 100 105
Ser Val Ile Lys Leu Asn Asp Phe Phe Val Glu Ile Arg Gly Thr
110 115 120
Leu Lys Met Met Cys Glu Ser Phe Ile Tyr Asn Gln Thr Leu Met
125 130 135
Lys Lys Leu Gln Glu Thr Asn Tyr Asp Val Met Leu Ile Asp Pro
140 145 150
Val Ile Pro Cys Gly Asp Leu Met Ala Glu Leu Leu Ala Val Pro
155 160 165
Phe Val Leu Thr Leu Arg Ile Ser Val Gly Gly Asn Met Glu Arg
170 175 180
Ser Cys Gly Lys Leu Pro Ala Pro Leu Ser Tyr Val Pro Val Pro
185 190 195
Met Thr Gly Leu Thr Asp Arg Met Thr Phe Leu Glu Arg Val Lys
200 205 210
Asn Ser Met Leu Ser Val Leu Phe His Phe Trp Ile Gln Asp Tyr
215 220 225
Asp Tyr His Phe Trp Glu Glu Phe Tyr Ser Lys Ala Leu Gly Arg
230 235 240
Pro Thr Thr Leu Cys Glu Thr Val Gly Lys Ala Glu Ile Trp Leu
245 250 255
Ile Arg Thr Tyr Trp Asp Phe Glu Phe Pro Gln Pro Tyr Gln Pro
260 265 270

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Leu Pro Lys Glu Met Glu Asn Phe Val Gln Ser Ser Gly Glu Asp
                290                 295                 300
Gly Ile Val Val Phe Ser Leu Gly Ser Leu Phe Gln Asn Val Thr
                305                 310                 315
Glu Glu Lys Ala Asn Ile Ile Ala Ser Ala Leu Ala Gln Ile Pro
                320                 325                 330
Gln Lys Val Leu Trp Arg Tyr Lys Gly Lys Lys Pro Ser Thr Leu
                335                 340                 345
Gly Ala Asn Thr Arg Leu Tyr Asp Trp Ile Pro Gln Asn Asp Leu
                350                 355                 360
Leu Gly His Pro Lys Thr Lys Ala Phe Ile Thr His Gly Gly Met
                365                 370                 375
Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Val Pro Met Val Gly
                380                 385                 390
Val Pro Ile Phe Gly Asp Gln Leu Asp Asn Ile Ala His Met Lys
                395                 400                 405
Ala Lys Gly Ala Ala Val Glu Ile Asn Phe Lys Thr Met Thr Ser
                410                 415                 420
Glu Asp Leu Leu Arg Ala Leu Arg Thr Val Ile Thr Asp Ser Ser
                425                 430                 435
Tyr Lys Glu Asn Ala Met Arg Leu Ser Arg Ile His His Asp Gln
                440                 445                 450
Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu Phe Val
                455                 460                 465
Met Arg His Lys Gly Ala Lys His Leu Arg Ser Ala Ala His Asp
                470                 475                 480
Leu Thr Trp Phe Gln His Tyr Ser Ile Asp Val Ile Gly Phe Leu
                485                 490                 495
Leu Thr Cys Val Ala Thr Ala Ile Phe Leu Phe Thr Lys Cys Phe
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 206344.1

<400> 167
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tccttctgac tagtaatgcc ctcctgcccc tcctgtccac gtgtcaaact cccaatcacc 180
ctttaaaacc agattgaatt attttgcttc tgtgaagctt tccctgacta tccccgggat 240
agaataatgt ttccactagt gttttgtcat ttactcgcta taataagaat acgaaagaac 300
atgtattttt gaaaagtatc tgtgatctct aatgagcttg taaacatctt gaggaataga 360
gactaagttt tgcttctttg ttcccccaaa gagaacttta ttaataacat ttaccatctc 420
tttagagaga gggtttttcc catctctgtg agaaagctcc agaatctaca accaggaata 480
agtgttaatg ggatagaacc aatgtagaga acagcatatg atatgtgaaa tgtactttat 540
tattaatacg aattcagtgg gctcacagaa tgaacctttt tgccaaactg gggggaaagc 600
attttctgta aaggtatctt tagaaaaata tgtataattt gaaaaatggt tatccaaatt 660
taacatttgt catataaaag gctcataaaa cgtgtgtggc tgtgtttctc aaaattgtgg 720
ggtcaattgg tcacattatg cctagacatt ctggttttgt tgcttggggt taataatggt 780
tgtggtctta tacagaaaag gaaatctgga catcttgccc ctgttattaa tacacctgtc 840
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tgaaattaac                                                       910
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<210> 168
<211> 1525

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1075717.7

<400> 168
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tttaataact acgctgagac aaatttaaac taggactgtt ctaggggagc tagagataag 180
gaaaaagaag aaacagtgct gaaaacttca aatatgtaaa gaaaacatat aatatttaaa 240
gcttaacttt aaacatttac atatgtgatc aacatatatt tatatattaa taaatattca 300
gataaaaatg tgatgaagac tgaaagtgac caaacctaag atgttgataa aatgatattc 360
aaagtacaaa taggtaaaaa catccatata tttaactaca tatccaattt tgtatggggc 420
tgtcatatag atatctacta aataatctaa gttgaaaaac aaccaagacc atcaattact 480
tgcttagatc ttaacacagc caaacagacc cctgaaccat ctcattttct tccgattttt 540
tttggagaga tgaaatatga gagacggaga atttatgttc aactctgatt tttaaattag 600
atttaaaaca agcttactga aatttaaaga gatctcaaga tgaaagagaa ctagaataat 660
ggttggtttt taaaacatta ataattaaac ttataaaacc aatggtaaaa tagtttctca 720
ctcttgacga tattttgcag tgttttaaag ggataccaaa aattctgcaa tagtaaacca 780
gtgaaagaga aaaatctaat atagatgaag ctttaacctc ttaatactgc attttgcaag 840
gctgttcctg caagctctgg ttttatagga tatgatatat ttagttgaat tacagactaa 900
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aaacagaatc ctttactgtt tcctcaagac acttgtgcat gttaccagtg gtagacaatc 1140
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tcccagaaga ggtcgccatt gttgaagaac ttggccgcag acatgctgat ggttctttct 1260
ctgatgagat gaacaccatt cttgataatc ttgccgccag ggactttata aactggttga 1320
ttcagaccaa aatcactgac aggaaataac tatatcacta ttcaagatca tcttcacaac 1380
atcacctgct agccacgtgg gatgtttgaa atgttaagtc ctgtaaattt aagaggtgta 1440
ttctgaggcc acattgcttt gcatgccaat aaataaattt tcttttagtg ttgtgtagcc 1500
aaaaattaca aatggaataa agttt 1525

<210> 169
<211> 1174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1075717.1

<400> 169
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cagaagacag cagaaatgaa aagcatttac tttgtggctg gattatttgt aatgctggta 180
caaggcagct ggcaacgttc ccttcaagac acagaggaga aatccagatc attctcagct 240
tcccaggcag acccactcag tgatcctgat cagatgaacg aggacaagcg ccattcacag 300
ggcacattca ccagtgacta cagcaagtat ctggactcca ggcgtgccca agattttgtg 360
cagtggttga tgaataccaa gaggaacagg aataacattg ccaaacgtca cgatgaattt 420
gagagacatg ctgaagggac ctttaccagt gatgtaagtt cttatttgga aggccaagct 480
gccaaggaat tcattgcttg gctggtgaaa ggccgaggaa ggcgagattt cccagaagag 540
gtcgccattg ttgaagaact tggccgcaga catgctgatg gttctttctc tgatgagatg 600
aacaccattc ttgataatct tgccgccagg gactttataa actggttgat tcagaccaaa 660
atcactgaca ggaaataact atatcactat tcaagatcat cttcacaaca tcacctgcta 720
gccacgtggg atgtttgaaa tgttaagtcc tgtaaattta agaggtgtat tctgaggcca 780
cattgctttg catgccaata aataaatttt cttttagtgt tgtgtagcca aaaattacaa 840
atggaataaa gttttatcaa aatattgcta aaatatcagc tttaaaatat gaaagtgcta 900
gattctgtta ttttcttctt attttggatg aagtacccca acctgtttac atttagcgat 960
aaaattattt ttctatgata taatttgtaa atgtaaatta ttccgatctg acatatctgc 1020
attataataa taggagaata gaagaactgg tagccacagt ggtgaaattg gaaagagaac 1080
tttcttcctg aaacctttgt cttaaaaata ctcagctttc aatgtatcaa agatacaatt 1140
aaataaaatt ttcaagcttc tttacaaaaa aaaa 1174

<210> 170
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 372647.1

<400> 170
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tcttattaat agtttcattg agagagaatt caacaggtat ttgtttgtaa gtactaacaa 180
aaaattgtac attcaatact tatcaaacaa aagttacatg atcttattct tccactatta 240
aatttttatt ttatttttaa attttgattt tttggcattt cacctgcaag tctttttgtc 300
ttattagagt cacactatgt gatggtattt tttctttatc cacaatctcc cctgactccc 360
ctgttactat tatggaataa tgtaaagtta agaattaatt atgattacag tagttatggg 420
taattaggta ctatgaatca aatcttagaa atcactttca ttattgtaat agtgcctcag 480
aaaacaattt ttcctctttg acttttttaaa ttgttaatac tatcataaat ggcatttatg 540
tattcattta ccaaatattg atcaaaaact actttgtgtc taccatcaga atttaaaaga 600
caccttccta gatcatagag aaggcttact gacatggcac atacagaatg gtaaacagat 660
agctatatta cacaatgaga taagtgcttc aataacaata tagagctgta agggagtgaa 720
ttgaagagat actcccctat tcttaaatgt tcagtgaaat tcctttgtcc caaagcgcta 780
gttaaacgaa gc 792

<210> 171
<211> 986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 148512.1

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<221> unsure
<222> 581, 597
<223> a, t, c, g, or other

<400> 171
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ggcaacccat gccttagaaa tcgctgggct gtttcttggt ggtgttggaa tggtgggcac 180
agtggctgtc actgtcatgc ctcagtggag agtgtcggcc ttcattgaaa acaacatcgt 240
ggtttttgaa aacttctggg aaggactgtg gatgaattgc gtgaggcagg ctaacatcag 300
gatgcagtgc aaaatctatg attccctgct ggctctttct ccggacctac aggcagccag 360
aggactgatg tgtgctgctt ccgtgatgtc cttcttggct ttcatgatgg ccatccttgg 420
catgaaatgc accaggtgca cgggggacaa tgagaaggtg aaggctcaca ttctgctgac 480
ggctggaatc atcttcatca tcacgggcat ggtggtgctc atccctgtga gctgggttgc 540
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aagtcagtat gtgtagttgt gtatgttttt ttaactttac tataaagcca tgcaaatgac 840
aaaaatctat attactttct caaaatggac cccaaagaaa ctttgattta ctgttcttaa 900
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<210> 172
<211> 3290
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2023119CB1

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ctccagccgc tgccgcctcg atctcctcgt ctcccgctcc gccctccctt ttccctggat 180
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agccaaagaa accccagaca acagatgccc atacgcagcg tatagcagta actccccagc 300
tcggtttctg tgccgtagtt tacagtattt aattttatat aatatatatt atttattata 360
gcatttttga tacctcatat tctgtttaca catcttgaaa ggcgctcagt agttctctta 420
ctaaacaacc actactccag agaatggcaa cggtgattac cagtactaca gctgctaccg 480
ccgcttctgg tcctttggtg gactacctat ggatgctcat cctgggcttc attattgcat 540
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gaatgaagtg gaatgtgaac tttgggcaag ttaaatggga cagccttcca tgttcatttg 3240
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<210> 173
<211> 679
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2023119CD1

<400> 173
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Gly Pro Leu Val Asp Tyr Leu Trp Met Leu Ile Leu Gly Phe Ile
20 25 30
Ile Ala Phe Val Leu Ala Phe Ser Val Gly Ala Asn Asp Val Ala
35 40 45
Asn Ser Phe Gly Thr Ala Val Gly Ser Gly Val Val Thr Leu Lys
50 55 60
Gln Ala Cys Ile Leu Ala Ser Ile Phe Glu Thr Val Gly Ser Val
65 70 75
Leu Leu Gly Ala Lys Val Ser Glu Thr Ile Arg Lys Gly Leu Ile
80 85 90
Asp Val Glu Met Tyr Asn Ser Thr Gln Gly Leu Leu Met Ala Gly
95 100 105
Ser Val Ser Ala Met Phe Gly Ser Ala Val Trp Gln Leu Val Ala
110 115 120
Ser Phe Leu Lys Leu Pro Ile Ser Gly Thr His Cys Ile Val Gly
125 130 135
Ala Thr Ile Gly Phe Ser Leu Val Ala Lys Gly Gln Glu Gly Val
140 145 150
Lys Trp Ser Glu Leu Ile Lys Ile Val Met Ser Trp Phe Val Ser
155 160 165
Pro Leu Leu Ser Gly Ile Met Ser Gly Ile Leu Phe Phe Leu Val
170 175 180
Arg Ala Phe Ile Leu His Lys Ala Asp Pro Val Pro Asn Gly Leu
185 190 195
Arg Ala Leu Pro Val Phe Tyr Ala Cys Thr Val Gly Ile Asn Leu
200 205 210
Phe Ser Ile Met Tyr Thr Gly Ala Pro Leu Leu Gly Phe Asp Lys
215 220 225
Leu Pro Leu Trp Gly Thr Ile Leu Ile Ser Val Gly Cys Ala Val
230 235 240
Phe Cys Ala Leu Ile Val Trp Phe Phe Val Cys Pro Arg Met Lys
245 250 255
Arg Lys Ile Glu Arg Glu Ile Lys Cys Ser Pro Ser Glu Ser Pro
260 265 270
Leu Met Glu Lys Lys Asn Ser Leu Lys Glu Asp His Glu Glu Thr
275 280 285
Lys Leu Ser Val Gly Asp Ile Glu Asn Lys His Pro Val Ser Glu
290 295 300
Val Gly Pro Ala Thr Val Pro Leu Gln Ala Val Val Glu Glu Arg
305 310 315
Thr Val Ser Phe Lys Leu Gly Asp Leu Glu Glu Ala Pro Glu Arg
320 325 330
Glu Arg Leu Pro Ser Val Asp Leu Lys Glu Glu Thr Ser Ile Asp
335 340 345
Ser Thr Val Asn Gly Ala Val Gln Leu Pro Asn Gly Asn Leu Val
350 355 360
Gln Phe Ser Gln Ala Val Ser Asn Gln Ile Asn Ser Ser Gly His
365 370 375
Tyr Gln Tyr His Thr Val His Lys Asp Ser Gly Leu Tyr Lys Glu
380 385 390
Leu Leu His Lys Leu His Leu Ala Lys Val Gly Asp Cys Met Gly
395 400 405
Asp Ser Gly Asp Lys Pro Leu Arg Arg Asn Asn Ser Tyr Thr Ser
410 415 420
Tyr Thr Met Ala Ile Cys Gly Met Pro Leu Asp Ser Phe Arg Ala
425 430 435
Lys Glu Gly Glu Gln Lys Gly Glu Glu Met Glu Lys Leu Thr Trp
440 445 450
Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg Met Asp Ser Tyr Thr
455 460 465
Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser Ala Ser Glu Ile
470 475 480
Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp Arg Lys Gly

485 490 495
Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys Pro Glu
500 505 510
Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys Phe
515 520 525
Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly
530 535 540
Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser
545 550 555
Ser Lys Val Ala Thr Pro Ile Trp Leu Leu Leu Tyr Gly Gly Val
560 565 570
Gly Ile Cys Val Gly Leu Trp Val Trp Gly Arg Arg Val Ile Gln
575 580 585
Thr Met Gly Lys Asp Leu Thr Pro Ile Thr Pro Ser Ser Gly Phe
590 595 600
Ser Ile Glu Leu Ala Ser Ala Leu Thr Val Val Ile Ala Ser Asn
605 610 615
Ile Gly Leu Pro Ile Ser Thr Thr His Cys Lys Val Gly Ser Val
620 625 630
Val Ser Val Gly Trp Leu Arg Ser Lys Lys Ala Val Asp Trp Arg
635 640 645
Leu Phe Arg Asn Ile Phe Met Ala Trp Phe Val Thr Val Pro Ile
650 655 660
Ser Gly Val Ile Ser Ala Ala Ile Met Ala Ile Phe Arg Tyr Val
665 670 675
Ile Leu Arg Met

<210> 174
<211> 1708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1973832CB1

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ccaggaagaa accaccggaa ggaaccatct cactgtgtgt aaacatgact tccaagctgg 180
ccgtggctct cttggcagcc ttcctgattt ctgcagctct gtgtgaaggt gcagttttgc 240
caaggagtgc taaagaactt agatgtcagt gcataaagac atactccaaa cctttccacc 300
ccaaatttat caaagaactg agagtgattg agagtggacc acactgcgcc aacacagaaa 360
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tggtatccaa gaatcagtga agatgccagt gaaacttcaa gcaaatctac ttcaacactt 540
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ttgaatttca gtaaacaatg aatagttttt catggtacca tgaaatatcc agaacatact 660
tatatgtaaa gtattattta tttgaatcta caaaaaacaa caaataattt ttaaatataa 720
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cataaattat tttcaagtgt aacttattaa cctatttatt atttatgtat ttatttaagc 1140
atcaaatatt tgtgcaagaa tttggaaaaa tagaagatga atcattgatt gaatagttat 1200
aaagatgtta tagtaaattt attttatttt agatattaaa tgatgtttta ttagataaat 1260
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gctgtgttga attacggaat aatgagttag aactattaaa acagccaaaa ctccacagtc 1500
aatattagta atttcttgct ggttgaaact tgtttattat gtacaaatag attcttataa 1560
tattatttaa atgactgcat ttttaaatac aaggctttat atttttaact ttaagatgtt 1620
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atgaaacatt taaaatataa tttgttgt 1708

<210> 175
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1973832CD1

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Ser Ala Ala Leu Cys Glu Gly Ala Val Leu Pro Arg Ser Ala Lys
20 25 30
Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro Phe His
35 40 45
Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro His
50 55 60
Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu
65 70 75
Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu
80 85 90
Lys Phe Leu Lys Arg Ala Glu Asn Ser
95

<210> 176
<211> 3154
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 241888.54

<220>
<221> unsure
<222> 2919, 2922, 3031, 3033, 3043-3044, 3119
<223> a, t, c, g, or other

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<213> Homo sapiens

<220>
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<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1736965CD1

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Ser Pro Asn Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys
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<211> 1969
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<213> Homo sapiens

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<223> Incyte ID No: 988660.32

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<223> a, t, c, g, or other

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<210> 181
<211> 919
<212> DNA
<213> Homo sapiens

<220>
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877, 879-881, 890, 906-907
<223> a, t, c, g, or other

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<210> 182
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1434821CD1

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20 25 30
Cys Thr Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly
35 40 45
Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp
50 55 60
Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp
65 70 75
Val Pro Pro Glu Glu Glu Cys Glu Phe
80

<210> 183
<211> 5648
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 464689.64

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<223> Incyte ID No: 522433CD1

<400> 188
Met Pro Gly Gln Glu Leu Arg Thr Leu Asn Gly Ser Gln Met Leu
1 5 10 15
Leu Val Leu Leu Val Leu Ser Trp Leu Pro His Gly Gly Ala Leu
20 25 30
Ser Leu Ala Glu Ala Ser Arg Ala Ser Phe Pro Gly Pro Ser Glu
35 40 45
Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr
50 55 60
Glu Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp
65 70 75
Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
80 85 90
Pro Glu Val Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile
95 100 105
Ser Arg Ala Ala Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu

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                110                 115                 120
His Arg Ala Leu Phe Arg Leu Ser Pro Thr Ala Ser Arg Ser Trp
                125                 130                 135
Asp Val Thr Arg Pro Leu Arg Arg Gln Leu Ser Leu Ala Arg Pro
                140                 145                 150
Gln Ala Pro Ala Leu His Leu Arg Leu Ser Pro Pro Pro Ser Gln
                155                 160                 165
Ser Asp Gln Leu Leu Ala Glu Ser Ser Ser Ala Arg Pro Gln Leu
                170                 175                 180
Glu Leu His Leu Arg Pro Gln Ala Ala Arg Gly Arg Arg Arg Ala
                185                 190                 195
Arg Ala Arg Asn Gly Asp His Cys Pro Leu Gly Pro Gly Arg Cys
                200                 205                 210
Cys Arg Leu His Thr Val Arg Ala Ser Leu Glu Asp Leu Gly Trp
                215                 220                 225
Ala Asp Trp Val Leu Ser Pro Arg Glu Val Gln Val Thr Met Cys
                230                 235                 240
Ile Gly Ala Cys Pro Ser Gln Phe Arg Ala Ala Asn Met His Ala
                245                 250                 255
Gln Ile Lys Thr Ser Leu His Arg Leu Lys Pro Asp Thr Val Pro
                260                 265                 270
Ala Pro Cys Cys Val Pro Ala Ser Tyr Asn Pro Met Val Leu Ile
                275                 280                 285
Gln Lys Thr Asp Thr Gly Val Ser Leu Gln Thr Tyr Asp Asp Leu
                290                 295                 300
Leu Ala Lys Asp Cys His Cys Ile
                305
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<210> 189
<211> 1712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 480489.5

<400> 189
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ttggatgaat atgaagacaa tcctgaaaga gcttgttcag agaggtcatg aggtgactgt 180
actggcatct tcagcttcca ttctttttga tcccaatgat gcatccactc ttaaatttga 240
agtttatcct acatctttaa ctaaaactga atttgagaat atcatcatgc aacaggttaa 300
gagatggtca gacattcgaa aagatagctt ttggttatat ttttcacaag aacaagaaat 360
cctgtgggaa ttatatgaca tatttagaaa cttctgtaaa gatgtagttt caaataagaa 420
agttatgaaa aaactacaag agtcaagatt tgacatcgtt tttgcagatg ctgtttttcc 480
ctgtggtgag ctgctggctg cgctacttaa catacggttt gtgtacagtc tccgctttac 540
tcctggctac acaattgaaa ggcacagtgg aggactgatt ttccctcctt cctacatacc 600
tattgttatg tcaaaattaa gtgatcaaat gactttcatg gagagggtaa aaaatatgat 660
ctatgtgctt tattttgact tttggttcca aatgtctgat atgaagaagt gggatcagtt 720
ttacagtgaa gttttaggaa gacccactac cttatttgag acaatgggaa aagctgacat 780
atggcttatg cgaaactcct ggagttttca atttcctcat ccattcttac caaacgttga 840
ttttgttgga ggattccact ggcaaacctg ccaaacccct acctaaggaa atggaggagt 900
ttgtacagag ctctggagaa aatggtgttg tggtgttttc tctggggtca gtgataagta 960
acatgacagc agaaagggcc aatgtaattg caacagccct tgccaagatc ccacaaaagg 1020
ttctgtggag atttgacggg aataaaccag atgccttagg tctcaatact cggctgtaca 1080
agtggatacc ccagaatgac cttctaggtc atccaaaaac cagagctttt ataactcatg 1140
gtggagccaa tggcatctat gaggcaatct accatgggat ccctatggtg ggcattccat 1200
tgtttttga tcaacctgat aacattgctc acatgaaggc caagggagca gctgttagat 1260
tggacttcaa cacaatgtcg agtacagacc tgctgaatgc actgaagaca gtaattaatg 1320
atcctttata taaagagaat attatgaaat tatcaagaat tcaacatgat caaccagtaa 1380
agcccctgga tcgagcagtc ttctggattg aatttgtcat gccccacaaa ggagccaaac 1440
accttcgagt tgcagcccat gacctcacct ggttccagta ccactctttg gatgtgattg 1500
ggtttctgct ggcctgtgtg gcaactgtga tatttatcat cacaaagttt tgtctgtttt 1560
gtttctggaa gtttgctaga aaagggaaga agggaaaaag agattagtta tgtctgacat 1620
ttgaagctgg aaaaccagat agataggaca acttcagttt attccagcaa gaaagaaaag 1680
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attgttatgc aagatttctt tcttcctgtg ac 1712

<210> 190
<211> 624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 480489.2

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aaagtccaat ttaaaagcca aactatctat gataactcaa attaaaatac acaaattctc 120
tgtcaattct ttgacattta ttttgaatta tttgatgctt taaaagcctt tcatagactt 180
gatatgtaca ggcaaattaa cttactttca gtgttggtat ccttattttt atccttcaga 240
tataaagaga atattatgaa attatcaaga attcaacatg atcaaccagt aaagcccctg 300
gatcgagcag tcttctggat tgaatttgtc atgccccaca aaggagccaa acaccttcga 360
gttgcagccc atgacctcac ctggttccag taccactctt tggatgtgat tgggtttctg 420
ctggcctgtg tggcaactgt gatatttatc atcacaaagt tttgtctgtt ttgtttctgg 480
aagtttgcta gaaaagggaa gaagggaaaa agagattagt tatgtctgac atttgaagct 540
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gcaagatttc tttcttcctg tgac 624

<210> 191
<211> 3111
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1737775CB1

<400> 191
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atcttgattc ttcaccttct agaaggggcc ctgagtaatt cactcattca gctgaacaac 120
aatggctatg aaggcattgt cgttgcaatc gaccccaatg tgccagaaga tgaaacactc 180
attcaacaaa taaaggacat ggtgacccag gcatctctgt atctgtttga agctacagga 240
aagcgatttt atttcaaaaa tgttgccatt ttgattcctg aaacatggaa gacaaaggct 300
gactatgtga gaccaaaact tgagacctac aaaaatgctg atgttctggt tgctgagtct 360
actcctccag gtaatgatga accctacact gagcagatgg gcaactgtgg agagaagggt 420
gaaaggatcc acctcactcc tgatttcatt gcaggaaaaa agttagctga atatggacca 480
caaggtaggg catttgtcca tgagtgggct catctacgat ggggagtatt tgacgagtac 540
aataatgatg agaaattcta cttatccaat ggaagaatac aagcagtaag atgttcagca 600
ggtattactg gtacaaatgt agtaaagaag tgtcagggag gcagctgtta caccaaaaga 660
tgcacattca ataaagtaac aggactctat gaaaaaggat gtgagtttgt tctccaatcc 720
cgccagacgg agaaggcttc tataatgttt gcacaacatg ttgattctat agttgaattc 780
tgtacagaac aaaaccacaa caaagaagct ccaaacaagc aaaatcaaaa atgcaatctc 840
cgaagcacat gggaagtgat ccgtgattct gaggacttta agaaaaccac tcctatgaca 900
acacagccac caaatcccac cttctcattg ctgcagattg gacaaagaat tgtgtgttta 960
gtccttgaca aatctggaag catggcgact ggtaaccgcc tcaatcgact gaatcaagca 1020
ggccagcttt tcctgctgca gacagttgag ctggggtcct gggttgggat ggtgacattt 1080
gacagtgctg cccatgtaca aagtgaactc atacagataa acagtggcag tgacagggac 1140
acactcgcca aaagattacc tgcagcagct tcaggaggga cgtccatctg cagcgggctt 1200
cgatcggcat ttactgtgat taggaagaaa tatccaactg atggatctga aattgtgctg 1260
ctgacggatg gggaagacaa cactataagt gggtgcttta acgaggtcaa acaaagtggt 1320
gccatcatcc acacagtcgc tttggggccc tctgcagctc aagaactaga ggagctgtcc 1380
aaaatgacag gaggtttaca gacatatgct tcagatcaag ttcagaacaa tggcctcatt 1440
gatgcttttg gggcctttc atcaggaaat ggagctgtct ctcagcgctc catccagctt 1500
gagagtaagg gattaaccct ccagaacagc cagtggatga atggcacagt gatcgtggac 1560
agcaccgtgg gaaaggacac tttgtttctt atcacctgga caacgcagcc tccccaaatc 1620
cttctctggg atcccagtgg acagaagcaa ggtggctttg tagtggacaa aaacaccaaa 1680
atggcctacc tccaaatccc aggcattgct aaggttggca cttggaaata cagtctgcaa 1740
gcaagctcac aaaccttgac cctgactgtc acgtcccgtg cgtccaatgc taccctgcct 1800
ccaattacag tgacttccaa aacgaacaag gacaccagca aattccccag ccctctggta 1860
gtttatgcaa atattcgcca aggagcctcc ccaattctca gggccagtgt cacagccctg 1920

attgaatcag tgaatggaaa aacagttacc ttggaactac tggataatgg agcaggtgct 1980
gatgctacta aggatgacgg tgtctactca aggtatttca caacttatga cacgaatggt 2040
agatacagtg taaaagtgcg ggctctggga ggagttaacg cagccagacg gagagtgata 2100
ccccagcaga gtggagcact gtacatacct ggctggattg agaatgatga aatacaatgg 2160
aatccaccaa gacctgaaat taataaggat gatgttcaac acaagcaagt gtgtttcagc 2220
agaacatcct cgggaggctc atttgtggct tctgatgtcc caaatgctcc catacctgat 2280
ctcttcccac ctggccaaat caccgacctg aaggcggaaa ttcacggggg cagtctcatt 2340
aatctgactt ggacagctcc tggggatgat tatgaccatg gaacagctca caagtatatc 2400
attcgaataa gtacaagtat tcttgatctc agagacaagt tcaatgaatc tcttcaagtg 2460
aatactactg ctctcatccc aaaggaagcc aactctgagg aagtcttttt gtttaaacca 2520
gaaaacatta cttttgaaaa tggcacagat cttttcattg ctattcaggc tgttgataag 2580
gtcgatctga aatcagaaat atccaacatt gcacgagtat ctttgtttat tcctccacag 2640
actccgccag agacacctag tcctgatgaa acgtctgctc cttgtcctaa tattcatatc 2700
aacagcacca ttcctggcat tcacatttta aaaattatgt ggaagtggat aggagaactg 2760
cagctgtcaa tagcctaggg ctgaattttt gtcagataaa taaaataaat cattcatcct 2820
tttttttgat tataaaattt tctaaaatgt attttagact tcctgtaggg ggcgatatac 2880
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attttagact tcctgtaggg ggcgataaaa taaaatgcta aacaactggg tatacatgca 3000
taaaaactat ccattcaaac ccaaaaattt aataatcatt gagtctttta ttaatgaatt 3060
tgaatactag aaagaaacag ggcttgcatc aataaatgga agtatgagtg t 3111

<210> 192
<211> 914
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1737775CD1

<400> 192
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20 25 30
Gly Tyr Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu
35 40 45
Asp Glu Thr Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala
50 55 60
Ser Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys
65 70 75
Asn Val Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp
80 85 90
Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu
95 100 105
Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu
110 115 120
Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His Leu Thr
125 130 135
Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro Gln
140 145 150
Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
155 160 165
Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly
170 175 180
Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn
185 190 195
Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys
200 205 210
Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe
215 220 225
Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
230 235 240
Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His
245 250 255
Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg

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                    260                      265                      270
Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr
                    275                      280                      285
Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu
                    290                      295                      300
Gln Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly
                    305                      310                      315
Ser Met Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly
                    320                      325                      330
Gln Leu Phe Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly
                    335                      340                      345
Met Val Thr Phe Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile
                    350                      355                      360
Gln Ile Asn Ser Gly Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu
                    365                      370                      375
Pro Ala Ala Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu Arg
                    380                      385                      390
Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser
                    395                      400                      405
Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly
                    410                      415                      420
Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile His Thr Val
                    425                      430                      435
Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys
                    440                      445                      450
Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln Asn
                    455                      460                      465
Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly
                    470                      475                      480
Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr
                    485                      490                      495
Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser
                    500                      505                      510
Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln
                    515                      520                      525
Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly
                    530                      535                      540
Gly Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile
                    545                      550                      555
Pro Gly Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala
                    560                      565                      570
Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn
                    575                      580                      585
Ala Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp
                    590                      595                      600
Thr Ser Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn Ile Arg
                    605                      610                      615
Gln Gly Ala Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu Ile
                    620                      625                      630
Glu Ser Val Asn Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn
                    635                      640                      645
Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg
                    650                      655                      660
Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val
                    665                      670                      675
Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val Ile Pro
                    680                      685                      690
Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp
                    695                      700                      705
Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp
                    710                      715                      720
Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly
                    725                      730                      735
Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu
                    740                      745                      750
Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly
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                755                     760                     765
Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr
                770                     775                     780
Asp His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser
                785                     790                     795
Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn
                800                     805                     810
Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe
                815                     820                     825
Leu Phe Lys Pro Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu
                830                     835                     840
Phe Ile Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys Ser Glu
                845                     850                     855
Ile Ser Asn Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln Thr
                860                     865                     870
Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro
                875                     880                     885
Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile His Ile Leu Lys
                890                     895                     900
Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser Ile Ala
                905                     910
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<210> 193
<211> 1714
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088078CB1

<400> 193

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agcagaatac agccattgga tgaatataaa gacaatcctg gatgagctta ttcagagagg 180
tcatgaggtg actgtactgg catcttcagc ttccattctt tttgatccca acaactcatc 240
cgctcttaaa attgaaattt atcccacatc tttaactaaa actgagttgg agaatttcat 300
catgcaacag attaagagat ggtcagacct tccaaaagat acattttggt tatatttttc 360
acaagtacag gaaatcatgt caatatttgg tgacataact agaaagttct gtaaagatgt 420
agtttcaaat aagaaattta tgaaaaaagt acaagagtca agatttgacg tcatttttgc 480
agatgctatt tttccctgta gtgagctgct ggctgagcta tttaacatac cctttgtgta 540
cagtctcagc ttctctcctg gctacacttt tgaaaagcat agtggaggat ttattttccc 600
tccttcctac gtacctgttg ttatgtcaga attaactgat caaatgactt tcatggagag 660
ggtaaaaaat atgatctatg tgctttactt tgacttttgg ttcgaaatat ttgacatgaa 720
gaagtgggat cagttttata gtgaagttct aggaagaccc actacgttat ctgagacaat 780
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gatcccacaa aaggttctgt ggagatttga tgggaataaa ccagatacct taggtctcaa 1080
tactcggctc tacaagtgga taccccagaa tgaccttcta ggtcatccaa agaccagagc 1140
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ggtggggatt ccattgtttg ctgatcaacc tgataacatt gctcacatga aggccagggg 1260
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tgatcaacca gtgaagcccc tggatcgagc agtcttctgg attgaatttg tcatgcgcca 1440
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tttggatgtg attgggttcc tgctggtctg tgtggcaact gtgatattta tcgtcacaaa 1560
atgttgtctg ttttgtttct ggaagtttgc tagaaaagca aagaagggaa aaaatgatta 1620
gttatatctg agatttgaag ctggaaaacc tgataggtga gactacttca gtttattcca 1680
gcaagaaaga ttgtgatgca tgatgtcgat cttc                              1714
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<210> 194
<211> 529
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 088078CD1

<400> 194
Met Ser Val Lys Trp Thr Ser Val Ile Leu Leu Ile Gln Leu Ser
1 5 10 15
Phe Cys Phe Ser Ser Gly Asn Cys Gly Lys Val Leu Val Trp Ala
20 25 30
Ala Glu Tyr Ser His Trp Met Asn Ile Lys Thr Ile Leu Asp Glu
35 40 45
Leu Ile Gln Arg Gly His Glu Val Thr Val Leu Ala Ser Ser Ala
50 55 60
Ser Ile Leu Phe Asp Pro Asn Asn Ser Ser Ala Leu Lys Ile Glu
65 70 75
Ile Tyr Pro Thr Ser Leu Thr Lys Thr Glu Leu Glu Asn Phe Ile
80 85 90
Met Gln Gln Ile Lys Arg Trp Ser Asp Leu Pro Lys Asp Thr Phe
95 100 105
Trp Leu Tyr Phe Ser Gln Val Gln Glu Ile Met Ser Ile Phe Gly
110 115 120
Asp Ile Thr Arg Lys Phe Cys Lys Asp Val Val Ser Asn Lys Lys
125 130 135
Phe Met Lys Lys Val Gln Glu Ser Arg Phe Asp Val Ile Phe Ala
140 145 150
Asp Ala Ile Phe Pro Cys Ser Glu Leu Leu Ala Glu Leu Phe Asn
155 160 165
Ile Pro Phe Val Tyr Ser Leu Ser Phe Ser Pro Gly Tyr Thr Phe
170 175 180
Glu Lys His Ser Gly Gly Phe Ile Phe Pro Pro Ser Tyr Val Pro
185 190 195
Val Val Met Ser Glu Leu Thr Asp Gln Met Thr Phe Met Glu Arg
200 205 210
Val Lys Asn Met Ile Tyr Val Leu Tyr Phe Asp Phe Trp Phe Glu
215 220 225
Ile Phe Asp Met Lys Lys Trp Asp Gln Phe Tyr Ser Glu Val Leu
230 235 240
Gly Arg Pro Thr Thr Leu Ser Glu Thr Met Gly Lys Ala Asp Val
245 250 255
Trp Leu Ile Arg Asn Ser Trp Asn Phe Gln Phe Pro His Pro Leu
260 265 270
Leu Pro Asn Val Asp Phe Val Gly Gly Leu His Cys Lys Pro Ala
275 280 285
Lys Pro Leu Pro Lys Glu Met Glu Asp Phe Val Gln Ser Ser Gly
290 295 300
Glu Asn Gly Val Val Val Phe Ser Leu Gly Ser Met Val Ser Asn
305 310 315
Met Thr Glu Glu Arg Ala Asn Val Ile Ala Ser Ala Leu Ala Gln
320 325 330
Ile Pro Gln Lys Val Leu Trp Arg Phe Asp Gly Asn Lys Pro Asp
335 340 345
Thr Leu Gly Leu Asn Thr Arg Leu Tyr Lys Trp Ile Pro Gln Asn
350 355 360
Asp Leu Leu Gly His Pro Lys Thr Arg Ala Phe Ile Thr His Gly
365 370 375
Gly Ala Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Ile Pro Met
380 385 390
Val Gly Ile Pro Leu Phe Ala Asp Gln Pro Asp Asn Ile Ala His
395 400 405
Met Lys Ala Arg Gly Ala Ala Val Arg Val Asp Phe Asn Thr Met
410 415 420
Ser Ser Thr Asp Leu Leu Asn Ala Leu Lys Arg Val Ile Asn Asp
425 430 435
Pro Ser Tyr Lys Glu Asn Val Met Lys Leu Ser Arg Ile Gln His
440 445 450
Asp Gln Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu

455 460 465
Phe Val Met Arg His Lys Gly Ala Lys His Leu Arg Val Ala Ala
470 475 480
His Asp Leu Thr Trp Phe Gln Tyr His Ser Leu Asp Val Ile Gly
485 490 495
Phe Leu Leu Val Cys Val Ala Thr Val Ile Phe Ile Val Thr Lys
500 505 510
Cys Cys Leu Phe Cys Phe Trp Lys Phe Ala Arg Lys Ala Lys Lys
515 520 525
Gly Lys Asn Asp